

LEWIS'S PLATES

OF THE

Muscles of the Human Body.

32/32/C

216





## NEW MEDICAL WORKS,

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET,  
OPPOSITE ST. DUNSTAN'S CHURCH.

---

### MORGAN ON THE EYE,

ILLUSTRATED BY EIGHTY COLOURED REPRESENTATIONS OF THE DISEASES,  
OPERATIONS, ETC., OF THE EYE.

LECTURES ON DISEASES OF THE EYE, DELIVERED AT GUY'S HOSPITAL.

By JOHN MORGAN, Esq., F.L.S. 8vo. Price 18s. Cloth lettered.

### BELL ON THE TEETH.

THE ANATOMY, PHYSIOLOGY, AND DISEASES OF THE TEETH.

By THOMAS BELL, F.R.S., F.L.S., F.G.S.,

Lecturer on Diseases of the Teeth at Guy's Hospital, and Professor of Zoology in King's College.  
Second Edition. 8vo. Price 14s. Cloth lettered. Containing upwards of 100 Figures, illustrative of the Structure, Growth, Diseases, &c., of the Teeth.

### LAWRENCE'S VIEWS OF THE NOSE.

ANATOMICO-CHIRURGICAL VIEWS of the NOSE, MOUTH, LARYNX, and FAUCES.  
Consisting of highly-finished Plates, the size of nature; and Plates of Outlines, with appropriate References, and an Anatomical Description of the Parts.

By WILLIAM LAWRENCE, Esq., F.R.S. Surgeon to St. Bartholomew's Hospital.

Folio, Price £1 1s. coloured; 10s. 6d. plain

### PILCHER ON THE EAR.

WITH NUMEROUS PLATES.

A TREATISE ON THE STRUCTURE, ECONOMY, AND DISEASES OF THE EAR.  
By GEORGE PILCHER, Lecturer on Anatomy and Surgery at the Webb-street School of Medicine.

8vo. Price 10s. 6d. Cloth lettered.

### ASHWELL ON DISEASES OF WOMEN.

A PRACTICAL TREATISE ON THE DISEASES PECULIAR TO WOMEN,

By SAMUEL ASHWELL, M.D. Member of the Royal College of Physicians of London; Obstetric Physician and Lecturer to Guy's Hospital.

Illustrated by Cases derived from Hospital and Private Practice, 1 Vol. 8vo.

*Nearly Ready.*

### LIZARS' ANATOMICAL PLATES.

A NEW AND IMPROVED EDITION.

To be completed in 12 Monthly Parts. Price 7s. 6d. plain. 10s. 6d. Coloured. Four of which are already out.

In this Edition there will be considerable Alterations and Improvements, new and additional Plates being given, where required. The Letter-press also, hitherto published in a separate Octavo volume, will be printed in Folio, the size of the Plates.

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET.

## ANATOMICAL SKETCHES AND DIAGRAMS.

By THOMAS WORMALD and A. M. McWHINNIE, Teachers of Practical Anatomy at St. Bartholomew's Hospital.

Part I. exhibiting the relative situations of the Cerebral Nerves at their Exit from the Cranium, and the Distribution of the Fifth Pair. 4to. Price 4s. Containing 5 Plates.

Part II. containing Views of the Portio Dura of the Seventh Pair of Cerebral Nerves, the Cervical Plexus, and of the different regions of the Neck.

## LIZARS' PRACTICAL SURGERY.

A SYSTEM OF PRACTICAL SURGERY, WITH NUMEROUS EXPLANATORY NOTES.

Illustrated with Plates, from Original Drawings after Nature. By JOHN LIZARS, Professor of Surgery to the Royal College of Surgeons, Edinburgh. 8vo. Cloth Lettered. Price £1 1s.

## FLOOD ON THE ARTERIES.

Illustrated by many Wood-cuts and Plate.

THE SURGICAL ANATOMY OF THE ARTERIES minutely given, and especially arranged for the Dissecting Room, together with the Descriptive Anatomy of the Heart, and the Physiology of the Circulation in Man and Inferior Animals.

By VALENTINE FLOOD, A.M., M.D.,

Lecturer on Anatomy and Operative Surgery in the North London School of Medicine.

12mo. Cloth lettered. Price 7s.

## GRAINGER'S GENERAL ANATOMY.

### ELEMENTS OF GENERAL ANATOMY,

Containing an Outline of the Organization of the Human Body.

By R. D. GRAINGER, Lecturer on Anatomy and Physiology. 8vo. Price 14s.

"Of this junction of Anatomy and Physiology we highly approve; it renders both sciences more interesting to the student, and fixes the principles more firmly in his memory."

"We may state, without hesitation, that Mr. Grainger has displayed great ability in the execution of his task, and that his 'ELEMENTS OF GENERAL ANATOMY,' will long maintain the first rank among works of a similar description."—*Lancet.*

"Mr. Grainger is well known to the profession as one of the most distinguished anatomical teachers of the day, and therefore eminently qualified as a writer on that branch of science to which he has devoted himself."—"Mr. Grainger has produced the most complete British system of Physiology; his style is good, his language clear and concise, and his information the most extensive hitherto published in this country."—*London Medical and Surgical Journal.*

## GRAINGER ON THE SPINAL CORD.

OBSERVATIONS on the STRUCTURE and FUNCTIONS of the SPINAL CORD.

By R. D. GRAINGER. 8vo. Price 7s.

## PORTRAIT OF R. D. GRAINGER, ESQ.

Engraved by LUPTON, from a Painting by WAGEMAN. Price 10s. 6d.

## JARDINE AND SELBY'S ORNITHOLOGY.

ILLUSTRATIONS OF ORNITHOLOGY, by Sir W. JARDINE, Bart., and P. J. SELBY, Esq.

In Numbers, Royal 4to. Price 6s. 6d. Imperial 4to. Price 12s. 6d. Containing Six coloured Plates of new and interesting Species, with copious Descriptions. Five Numbers are now published.

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET.

### GUY'S HOSPITAL REPORTS.

Edited by GEORGE H. BARLOW, M.A and L.M., Trin. Coll., Cam., and  
JAMES P. BABINGTON, M.A , Trin. Coll., Cam.

Volumes I. to IV., for the respective Years, 1836, 1837, 1838, 1839. Price 13s. each, in cloth.

A Half Volume is published in April and October of each year.

### FOX ON CHLOROSIS.

OBSERVATIONS ON THE DISORDER OF THE GENERAL HEALTH OF FEMALES, CALLED CHLOROSIS. Showing the True Cause to be entirely independent of peculiarities of Sex.

By SAMUEL FOX. 8vo. Price 6s.

### CURLING ON TETANUS.

A TREATISE ON TETANUS; being the Essay for which the Jacksonian Prize for the Year 1834 was awarded by the Royal College of Surgeons in London.

By T. BLIZARD CURLING,

Assistant Surgeon to the London Hospital, and Lecturer on Morbid Anatomy. 8vo. Price 8s.

"It displays great industry, and the industry of an intelligent mind."—*Medical Gazette*.

### JUDD ON THE VENEREAL.

A PRACTICAL TREATISE ON URETHRITIS AND SYPHILIS:

Including a variety of Examples, Experiments, Remedies, Cures, and a New Nosological Classification of the various Venereal Eruptions; illustrated by numerous coloured Plates.

By WILLIAM H. JUDD, Surgeon in the Fusilier Guards. 8vo. Price 25s.

### LEE ON DISEASES OF WOMEN.

Researches on the Pathology and Treatment of some of the most important Diseases of Women.

By ROBERT LEE, M.D., F.R.S. 8vo. Plates. Price 7s. 6d.

"In taking leave of Dr. Lee's work, we feel it to be alike our pleasure and duty once more to record our opinion of its high and sterling merits: it ought to have a place on the shelves of every physician in the kingdom."—*Johnson's Medico-Chirurgical Review*.

### CLUTTERBUCK ON FEVER.

AN ESSAY ON PYREXIA; OR, SYMPTOMATIC FEVER,

As Illustrative of the Nature of Fever in general. By HENRY CLUTTERBUCK, M.D. 8vo. Price 5s.

### PARIS'S APPENDIX TO THE PHARMACOLOGIA;

Completing the Work according to  
THE NEW LONDON PHARMACOPÆIA.

With some Remarks on Various Criticisms upon the London Pharmacopœia, 8vo 2s. 6d. or bound with the Pharmacologia in One Volume, cloth lettered, Price £1 6s. 6d.

### WALLER'S MIDWIFERY.

ELEMENTS OF PRACTICAL MIDWIFERY;

Or, Companion to the Lying-In-Room.

By CHARLES WALLER, Lecturer on Midwifery. Second Edition with Plates. 18mo.

Price 4s. 6d.

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET.

## JOHNSON'S ECONOMY OF HEALTH.

THE ECONOMY OF HEALTH;

Or, The Stream of Human Life from the Cradle to the Grave; with Reflections, Moral and Physical, on the successive Phases of Human Existence.

By JAMES JOHNSON, M.D., Physician Extraordinary to the late King.

Third Edition, enlarged and improved. 8vo. with portrait. Price 7s. 6d.

## JOHNSON ON CHANGE OF AIR.

CHANGE OF AIR;

Or the Pursuit of Health and Recreation, illustrating the beneficial influence of Bodily Exercise, Change of Scene, Pure Air and Temporary Relaxation.

Fifth Edition, enlarged. Price 9s.

## JOHNSON ON GOUT.

PRACTICAL RESEARCHES

ON THE NATURE, CURE, AND PREVENTION OF GOUT. 8vo. 5s. 6d.

## JOHNSON ON TROPICAL CLIMATES.

THE INFLUENCE OF TROPICAL CLIMATES ON EUROPEAN CONSTITUTIONS,

Including an Essay on Indigestion, and Observations on the Diseases and Regimen of Invalids on their Return from Hot and Unhealthy Climates.

Fifth Edition, 8vo. with portrait. Price 18s.

## JOHNSON ON INDIGESTION.

AN ESSAY ON INDIGESTION;

Or, Morbid Sensibility of the Stomach and Bowels as the proximate cause of Dyspepsy, Nervous

Irritability, Mental Despondency, Hypochondriasis, &c., with

Observations on the Diseases and Regimen of Invalids on their return from Hot and Unhealthy Climates. Ninth Edition. Price 6s. 6d.

"Dr. James Johnson's books are always distinguished by originality and vigour. The views are frequently new and startling—his manner always sincere, buoyant, and independent."—*Atlas*.

## PORTRAIT OF DR. JAMES JOHNSON.

Physician Extraordinary to the late King.

Engraved by Phillips, from a Painting by Wood. Price 10s. 6d.

## MEDICO-CHIRURGICAL REVIEW, AND JOURNAL OF PRACTICAL MEDICINE.

Edited by JAMES JOHNSON, M.D., Physician Extraordinary to the late King; and  
HENRY JAMES JOHNSON, Esq. Lecturer on Anatomy in the School of  
St. George's Hospital in Kinnerton Street.

Published Quarterly on the 1st of January, April, July and October, Price 6s. Containing Reviews and Bibliographic Notices, Selections from Foreign and British Journals, Chemical Reviews and Hospital Reports, Miscellanies, &c.

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET.

## BILLING'S MEDICINE.

### FIRST PRINCIPLES OF MEDICINE.

By ARCHIBALD BILLING, M.D., A.M.,

Member of the Senate of the University of London; Fellow of the Royal College of Physicians, &c.  
Svo. Third Edition, Cloth. Price 10s. 6d.

"We know of no book which contains within the same space so much valuable information, the result not of fanciful theory, nor of idle hypothesis, but of close persevering clinical observation, accompanied with much soundness of judgment and extraordinary clinical tact."—*Johnson's Medico-Chirurgical Review*.

"The work of Dr. Billing is a lucid commentary upon the first principles of medicine, and comprises an interesting account of the received doctrines of physiology and pathology. We strongly recommend not only the perusal but the study of it to the student and young practitioner, and even to the ablest and most experienced, who will gain both information and knowledge from reading it."—*London Medical and Surgical Journal*.

## THE NATURALIST'S LIBRARY.

Conducted by Sir WILLIAM JARDINE, Bart., F.R.S.E., F.L.S., &c.

Publishing in Volumes uniform with the Works of Scott, Byron, Cowper, &c. 6s. each.

The Work is so arranged that, each Volume being complete in itself, any subject may be taken alone.—The Volumes already published contain

### THE NATURAL HISTORY OF

HUMMING BIRDS, 2 vols.

MONKEYS, 1 vol.

LIONS AND TIGERS, 1 vol.

GALLINACEOUS BIRDS, 1 vol.

GAME BIRDS, 1 vol.

FISHES OF THE PERCH KIND, 1 vol.

BEETLES, 1 vol.

PIGEONS, 1 vol.

BRITISH BUTTERFLIES AND MOTHS, 2 vols.

DEER, ANTELOPES, &c. 1 vol.

GOATS AND SHEEP, 1 vol.

THE ELEPHANT, RHINOCEROS, &c. 1 vol.

PARROTS, 1 vol.

WHALES, DOLPHINS, &c. 1 vol.

BIRDS OF WESTERN AFRICA, 2 vols.

FOREIGN BUTTERFLIES, 1 vol.

FLY-CATCHERS, 1. vol.

BRITISH BIRDS, vols. 1 and 2.

BRITISH QUADRUPEDS, 1 vol.

MARINE AMPHIBIA (SEALS, &c.) 1 vol.

Each volume is illustrated by nearly Forty Plates, faithfully coloured from Nature. Besides numerous Wood-cuts, Memoirs and Portraits of distinguished Naturalists are also given.

"We could hardly have thought that any new periodical would have obtained our approbation so entirely as the 'Naturalist's Library'; but the price is so low, the coloured plates—three dozen in number—so very elegant, and the description so very scientific and correct, that we cannot withhold from it our warmest praise. The whole is a perfect bijou, and as valuable as pretty."—*Literary Gazette*.

"The book is perhaps the most interesting, the most beautiful, and the cheapest series yet offered to the public."—*Athenaeum*.

Volumes in preparation: DOGS, 2 vols. (Wild and Domestic Species).—Introductory Volume on ENTOMOLOGY,—BEES—BRITISH BIRDS, vol. 3. &c. &c.

## SOUTH'S DISSECTOR'S MANUAL.

### THE DISSECTOR'S MANUAL.

By JOHN F. SOUTH. Lecturer on Anatomy at St. Thomas's Hospital. Author of "A Description of the Bones." Svo. Price 12s.

## ANNESLEY'S DISEASES OF INDIA.

### SKETCHES OF THE MOST PREVALENT DISEASES OF INDIA.

Comprising a Treatise on Epidemic Cholera in the East, &c. &c. By JAMES ANNESLEY, Esq. Of the Madras Medical Establishment. Second Edition, Svo. 18s.

"Mr. Annesley is a man of such ample experience, sound judgment, and scrupulous fidelity, that every thing falling from his pen is highly valuable."—Dr. JAMES JOHNSON, ("Influence of Tropical Climates on European Constitutions.")

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET.

### LITTLE ON CLUB-FOOT.

A TREATISE ON THE NATURE OF CLUB-FOOT, AND ANALOGOUS DISTORTIONS; including their Treatment both with and without Surgical Operation.

Illustrated by a Series of Cases, and numerous Practical Instructions. Svo. Price 12s. Forty-five Engravings.

By W. J. LITTLE, M.D.,

Assistant Physician to the London Hospital.

### PEREIRA'S PHYSICIANS' PRESCRIPTIONS,

*Selecta è Præscriptis;*

Or, SELECTIONS FROM PHYSICIANS' PRESCRIPTIONS;

Containing Lists of the Terms, Abbreviations, &c., used in Prescriptions, with Examples of Prescriptions grammatically explained and construed, and a Series of Prescriptions illustrating the use of the preceding Terms. Intended for the use of Medical Students.

By JONATHAN PEREIRA, F.L.S. Lecturer on Chemistry and Materia Medica.

Seventh Edition, with Key. 82mo. cloth. Price 5s.

### BOYLE'S WESTERN AFRICA,

A PRACTICAL MEDICO HISTORICAL ACCOUNT OF THE WESTERN COAST OF AFRICA,

Together with the Symptoms, Causes, and Treatment of the Fevers of Western Africa.

By JAMES BOYLE, Colonial Surgeon to Sierra Leone. Svo. Price 12s.

### DR. KNOX'S ANATOMICAL ENGRAVINGS.

A Series of Engravings descriptive of the Anatomy of the Human Body. Engraved by Edward Mitchell.

The BONES.	From SUE and ALBINUS.	4to. cloth, 19s.
The LIGAMENTS.	From the CALDANIS.	4to. cloth, 12s.
The MUSCLES.	From CLOQUET.	4to. cloth, 1l. 5s.
The ARTERIES.	From TIENEMANN.	4to. cloth, 2l.
The NERVES.	From SCARPA.	4to. cloth, 1l. 12s.

"We have examined the illustrative plates which have accompanied these publications; and we have in consequence arrived at the conclusion, that Dr. Knox and Mr. Mitchell have effected that which the student of Anatomy has so long desired. We have now a work which every tyro in the science may study with advantage, and every practitioner derive improvement from."—Johnson's *Medico-Chirurgical Review*.

### ANATOMICO-CHIRURGICAL VIEWS OF THE MALE AND FEMALE PELVIS.

Designed and Engraved by LEWIS. The Plates the size of Nature, with Explanations and References to the Parts. Second Edition, folio. Price £1 1s., or £2 2s. coloured.

### TEXT BOOK OF ANATOMY.

FOR JUNIOR STUDENTS.

By ALEXANDER J. LIZARS, M.D., Lecturer on Anatomy and Examiner to the University of St. Andrews. 12mo, Part 1. Price 6s.

### M. LUGOL ON IODINE IN SCROFULA.

ESSAYS ON THE EFFECTS OF IODINE IN THE TREATMENT OF SCROFOLOUS DISEASES.

Translated from the French of M. LUGOL, by Dr. O'SHAUGHNESSY. Svo. Price 8s.

PUBLISHED BY S. HIGHLEY, 32, FLEET STREET.

### CLOQUET ON HERNIA BY MC. WHINNIE.

AN ANATOMICAL DESCRIPTION OF THE PARTS CONCERNED IN INGUINAL  
AND FEMORAL HERNIA.

Translated from the French of CLOQUET. With Explanatory Notes, by A. M. McWHINNIE.  
Teacher of Practical Anatomy at St. Bartholomew's Hospital.

Royal 8vo., with Plates. Price 5s.

### RAMSBOTHAM'S MIDWIFERY.

PRACTICAL OBSERVATIONS IN MIDWIFERY.

WITH A SELECTION OF CASES.

By JOHN RAMSBOTHAM, M.D. 2 vols. 8vo. Price £1 2s. 6d.

"It is refreshing to turn from the pompous puerilities with which the press has recently teemed in the shape of "Outlines" and "Manuals" of Midwifery, to the "Observations" of Dr. Ramsbotham. We have here some of the most important subjects connected with parturition fully discussed by one who speaks not only of what he has read, but of what he himself has seen done, and the result is correspondingly satisfactory, in that the Observations are really practical."—*Medical Gazette*.

### PHARMACOPŒIA HOMŒOPATHICA.

Edidit F. F. QUIN, M.D. 8vo. Price 7s

### GREGORY'S DUTIES OF A PHYSICIAN.

LECTURES ON THE DUTIES AND QUALIFICATIONS OF A PHYSICIAN;

More particularly addressed to Students and Junior Practitioners.

By JOHN GREGORY, M.D., late Professor of Medicine in the University of Edinburgh.  
12mo. Price 4s.

### REFLECTIONS OF THE PERITONEUM AND PLEURÆ.

ANATOMICAL DESCRIPTION OF THE REFLECTIONS OF THE  
PERITONEUM AND PLEURÆ.

WITH DIAGRAMS.

By G. D. DERMOTT. Lecturer on Anatomy and Surgery. Price 4s. 6d.

BY THE SAME AUTHOR,

A CONCISE DESCRIPTION OF THE LOCALITY AND DISTRIBUTION OF THE  
ARTERIES IN THE HUMAN BODY.

12mo., with Plates. Price 6s.

### THE LONDON DISSECTOR.

Or System of Dissection practised in the Hospitals and Lecture Rooms of the Metropolis.  
FOR THE USE OF STUDENTS.

By JAMES SCRATCHLEY. Eighth Edition, Revised. 12mo. Price 5s.

### ROWLAND ON NEURALGIA.

A TREATISE ON NEURALGIA.

By RICHARD ROWLAND, M.D., Physician to the City Dispensary. 8vo. Price 6s.

"Dr. Rowland's Work on Neuralgia does him great credit, and will be readily consulted by every one who has to treat an obstinate case of this Malady."—*Medical Gazette*.

"Dr. Rowland's Book is a very useful one."—*Johnson's Medico-Chirurgical Review*.

"The Volume before us is a creditable monument of its author's industry."—*British and Foreign Medical Review*.

**NEW MEDICAL WORKS,**  
**PUBLISHED BY S. HIGHLEY, 32, FLEET STREET,**  
**OPPOSITE ST. DUNSTAN'S CHURCH.**

---

**PHILLIPS'S PHARMACOPOEIA.**

A Translation of the Pharmacopoeia Collegii Regalis Medicorum Londinensis, MDCCXXXVI,  
with copious Notes and Illustrations; also a Table of Chemical Equivalents.

By RICHARD PHILLIPS, F.R.S., L. and E. Third Edition, Corrected and Improved. 8vo.  
Price 10s. 6d. Cloth lettered.

**LAENNEC'S MANUAL OF AUSCULTATION.**

A Manual of Percussion and Auscultation, composed from the French of Meriedec Laennec.  
By J. B. SHARPE. 18mo. Second Edition, Improved and Enlarged. Price 3s.

"You will find it of great use to have this book, when you are at the patient's bedside. Laennec's work is too large to be studied during the winter, when you are attending hospital practice, and have so many other engagements; but this little hook will be extremely useful, while you are learning how to use the car, and may be carried in the pocket."—*Dr. Elliotson's Lectures, (Lancet).*

**SMELLIE'S OBSTETRIC PLATES.**

Exhibiting, in a Series of Engravings, the Process of Delivery, with and without the Use of Instruments, and forming A SUITABLE ATLAS TO BURNS'S MIDWIFERY,  
and other Treatises requiring Plates.

Price 5s. in cloth boards; or, with Burns's Midwifery in One Volume, cloth lettered, £1 1s

"Judiciously selected, and ably executed."—*Medico-Chirurgical Review.*

**STOWE'S TOXICOLOGICAL CHART.**

A Toxicological Chart, exhibiting at one view the Symptoms, Treatment, and Mode of Detecting the various Poisons, Mineral, Vegetable, and Animal; to which are added, Concise Directions for the Treatment of Suspended Animation.

By WILLIAM STOWE, Member of the Royal College of Surgeons.

Ninth Edition. 2s. Varnished and mounted on cloth with roller, 6s.

"We have placed the Chart in our own Library, and we think that no medical practitioner should be without it. It should be hung up in the shops of all chemists and druggists, as well as in the dispensaries and surgeries of all general practitioners."—*Medico-Chirurgical Review.*

**JOHNSTON'S ZOO PHYTES.**

A HISTORY OF BRITISH ZOO PHYTES;

By GEORGE JOHNSTON, M.D. &c.

The object of the Work is to describe *every* variety of this interesting species of Animal, ascertained to inhabit the British Islands. The First Part of the Volume is devoted to the History of Zoophytology, and to details on the structure, physiology, and classification of Zoophytes; and the Second contains the description of the Species.

Octavo, cloth, with forty Plates, and nearly 100 Wood-cuts. Price £1 10s.

"At length the subject has been taken up in a worthy manner by Dr. Johnston in the volume before us, and the student may now pursue his researches with a safe and ample manual to guide him. The plates and cuts are admirable, and need no comment."—*Annals of Natural History.*

"Dr. Johnston has done a great service to the Fauna of Britain by the publication of this valuable volume."—*Jameson's Journal.*

"One of the most elegant and interesting works on Natural History which has issued from the press."—*Leeds Mercury.*

*In the Press, uniform with the above,*

**A History of the British Sponges and Corallines.**

*To Leonard Lewis  
from his  
affectionate Father*

# PLATES

OF THE

## MUSCLES OF THE HUMAN BODY

DRAWN FROM NATURE

AND ENGRAVED BY

GEORGE LEWIS:

ACCOMPANIED BY EXPLANATORY REFERENCES.

DESIGNED AS A GUIDE TO THE STUDENT OF ANATOMY,

AND

A BOOK OF REFERENCE FOR THE MEDICAL PRACTITIONER.

LONDON:

JOHN CHURCHILL, PRINCES STREET, SOHO.

1834.



LONDON:

Printed by R. Watts, Crown Court, Temple Bar.

## ADVERTISEMENT.

---

THE small book of INNES on the MUSCLES, with Engravings reduced from the matchless Work of the great ALBINUS, has been for a long time employed by Anatomical Students as an assistant to their labours in the Dissecting Room. The Author of the present Views, when engaged in dissecting, in the course of his professional studies as an artist, had recourse to INNES; but soon felt the want of more assistance than could be derived from representations on so small a scale. He made Sketches from his own Dissections; and having completed several Drawings, engraved them. He now offers these Engravings to the Public, being convinced that they will afford to others that aid which he himself would have been glad to meet with at the outset of his Anatomical studies. His confidence in the utility of the Work has been strengthened by the encouraging approbation and sanction of some Gentlemen, whose Anatomical experience and knowledge add weight to their opinion

opinion on such a subject: of these, he is allowed to mention the names of Mr. LAWRENCE, and Mr. STANLEY of St. Bartholomew's Hospital.

Those who wish for the fullest information on Myology, will resort to the immortal production of ALBINUS\*, and the recently-published posthumous Work of the not less illustrious MASCAGNI†; in both of which the profoundest science has received the utmost aid from the Draftsman and Engraver. It is the humbler aim of the Author to furnish a set of Plates, which, by combining portability with fidelity and clearness of representation, may assist the young Anatomist in his practical pursuits, and refresh the memory of the Medical Practitioner, who cannot revive his recollections by referring to the subject, when accidents, injuries, or diseases, require the light of Anatomical skill and knowledge. He flatters himself too, that these Views are calculated to be of service to Painters and Sculptors, as well as to those who take interest in Works of Art: such productions can neither be properly executed nor estimated without an acquaintance with the structure of the Human Body. The Author wishes his own Work to be judged by reference to this standard. It has been derived entirely from Nature.

All

\* Tabulæ Sceleti et Musculorum Hominis. *Leyden.*

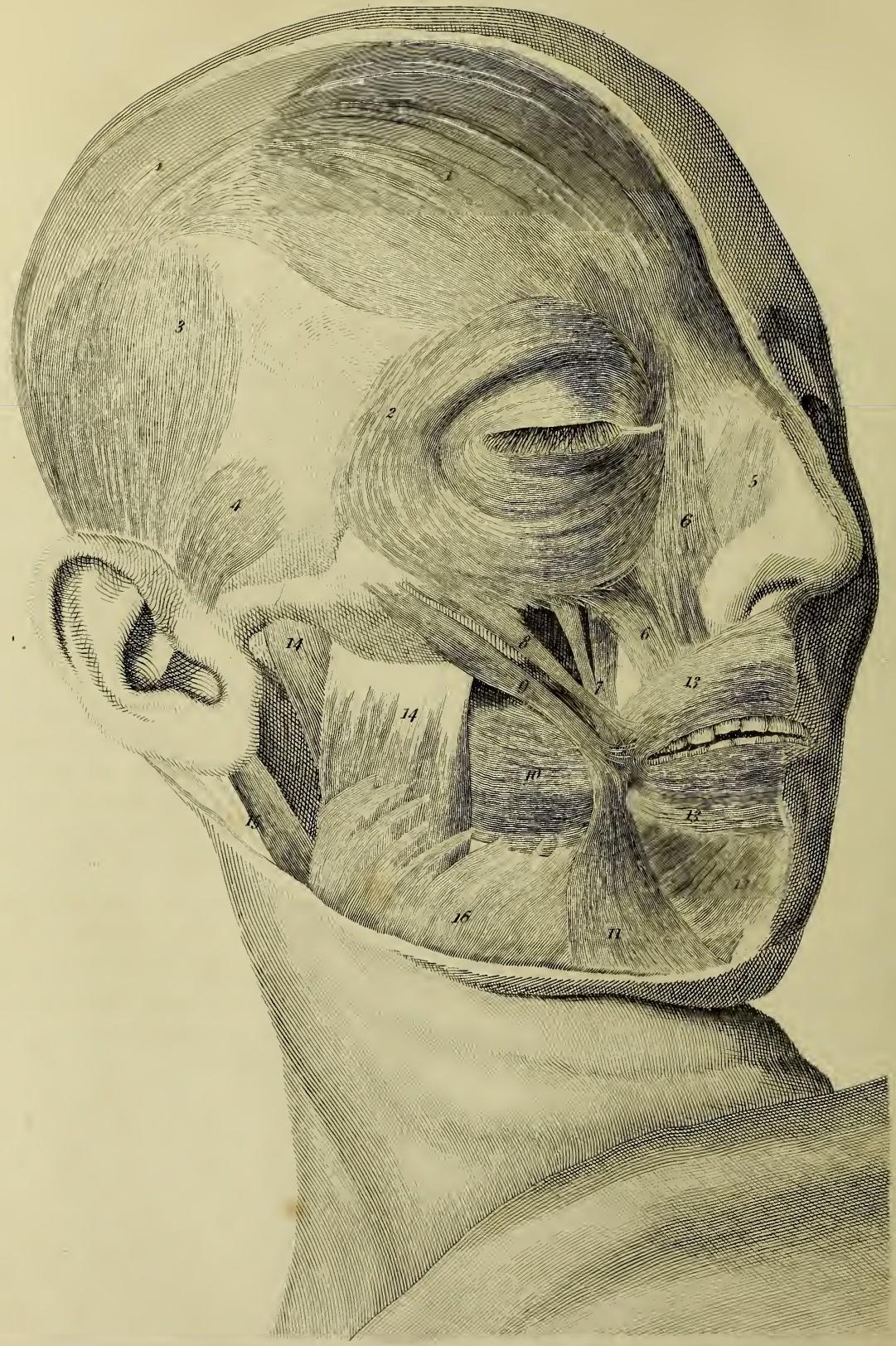
† Anatomy for Painters and Sculptors, in Italian; with Figures, of the size of life. *Florence, 1816.*

( v )

All the Figures were drawn from actual Dissections: it is therefore presumed that they may resemble the subjects; which cannot be expected in those copies of copies to the fifth and sixth generation, which have so long afforded the only supply of the Public in this department.







Drawn & Eng'd by G. Lewis.

# PLATE I.

## MUSCLES OF THE FACE, SCALP, AND EAR.

---

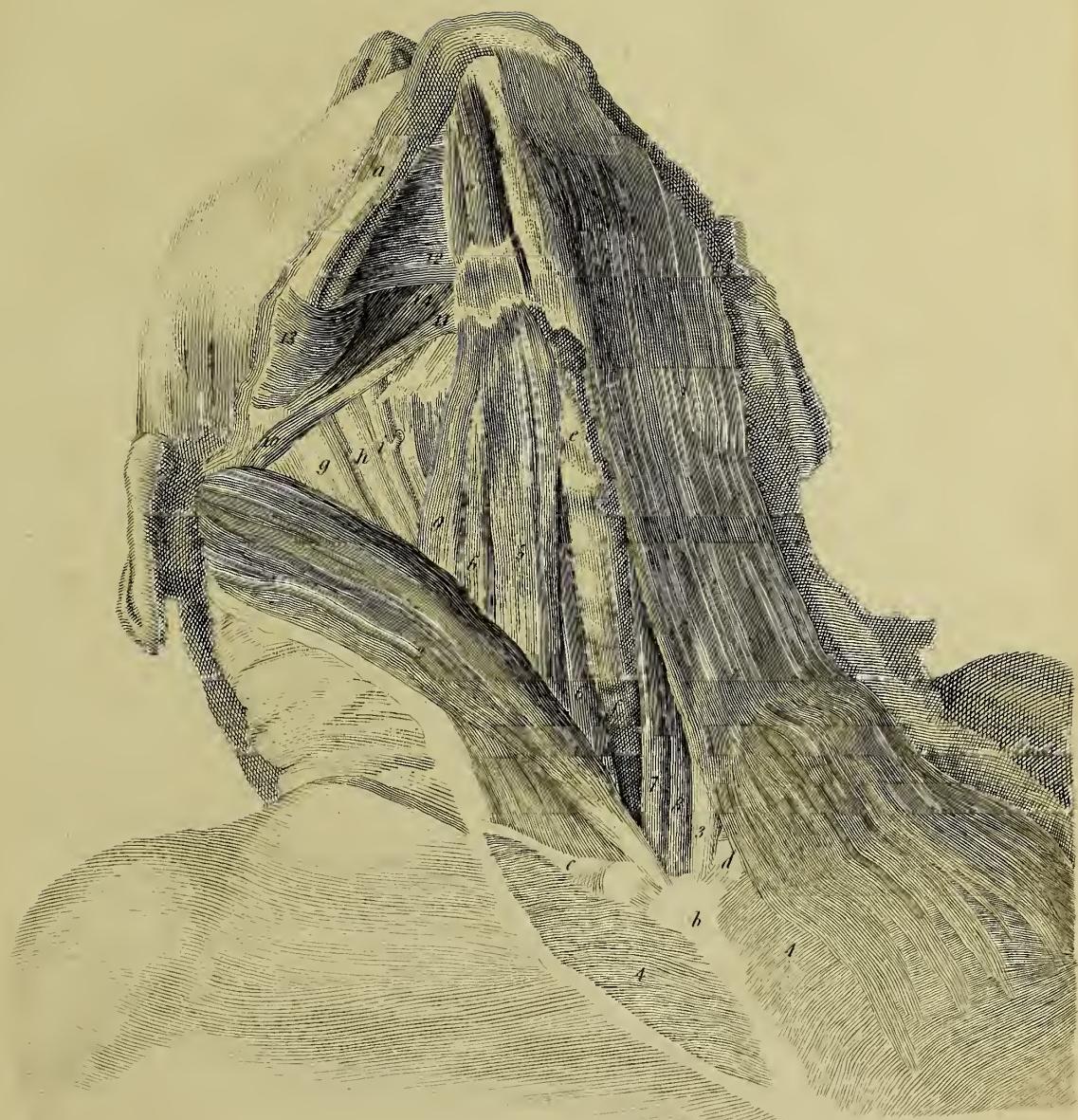
1. 1. FRONTAL portion of the *fronto-occipitalis* or Epicranius muscle, and its tendon or *aponeurosis*.—A portion of its fibres descends upon the nose, and mixes with those of the *compressor naris*, and of the *levator labii superioris et alæ nasi*.
2. *Orbicularis palpebrarum*.—The white portion opposite to the internal junction of the eyelids is the tendon, which lies across the front of the *lachrymal sac*, and is fixed to the nasal process of the superior maxillary bone.
3. *Attollens auriculam*, or *superior auris*, lying upon the temporal *fascia*, and on the *aponeurosis* of the *occipito-frontalis*.
4. *Prior auriculæ*, or *anterior auris*.
5. *Compressor naris*.
6. 6. *Levator labii superioris et alæ nasi*.
7. *Levator anguli oris*.—Although represented here as arising by two distinct portions, it has more commonly a single origin.
8. *Zygomaticus minor*.
9. *Zygomaticus major*.
10. *Buccinator*.
11. *Depressor anguli oris*.
12. *Depressor labii inferioris*.
13. 13. *Orbicularis oris*.
14. 14. *Masseter*: the external and internal portions of the muscle.—Behind the latter, of which only a small part is visible in this view, the condyle of the lower jaw is seen. The *masseter* is covered below by the fibres of the *platysma myoides*.
15. *Sterno-cleido-mastoideus*.
16. Portion of the *platysma myoides*.—Its fibres ascend over the basis of the lower jaw, and partly terminate in the fat of the face, partly are blended with those of the *depressor anguli oris* and *labii inferioris*. The anterior fibres have a bony insertion into the lower jaw, under the attachment of the *depressor labii inferioris*: a part of it is just visible here.

## PLATE II.

### MUSCLES OF THE NECK.

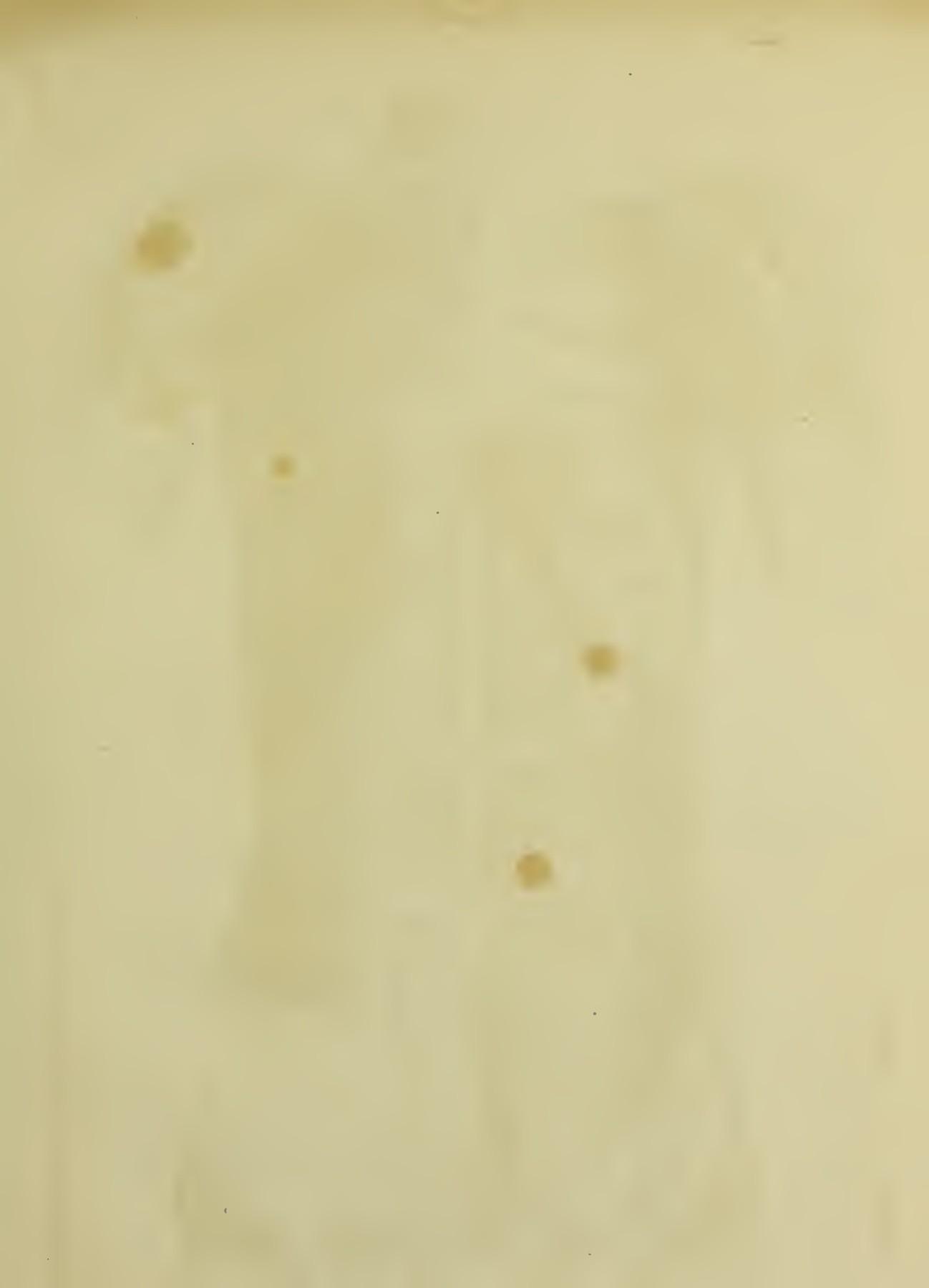
ON the left side of the subject, the superficial stratum, or that immediately under the skin, is seen: on the right side, the second layer is exposed by the removal of the *platysma myoides*.

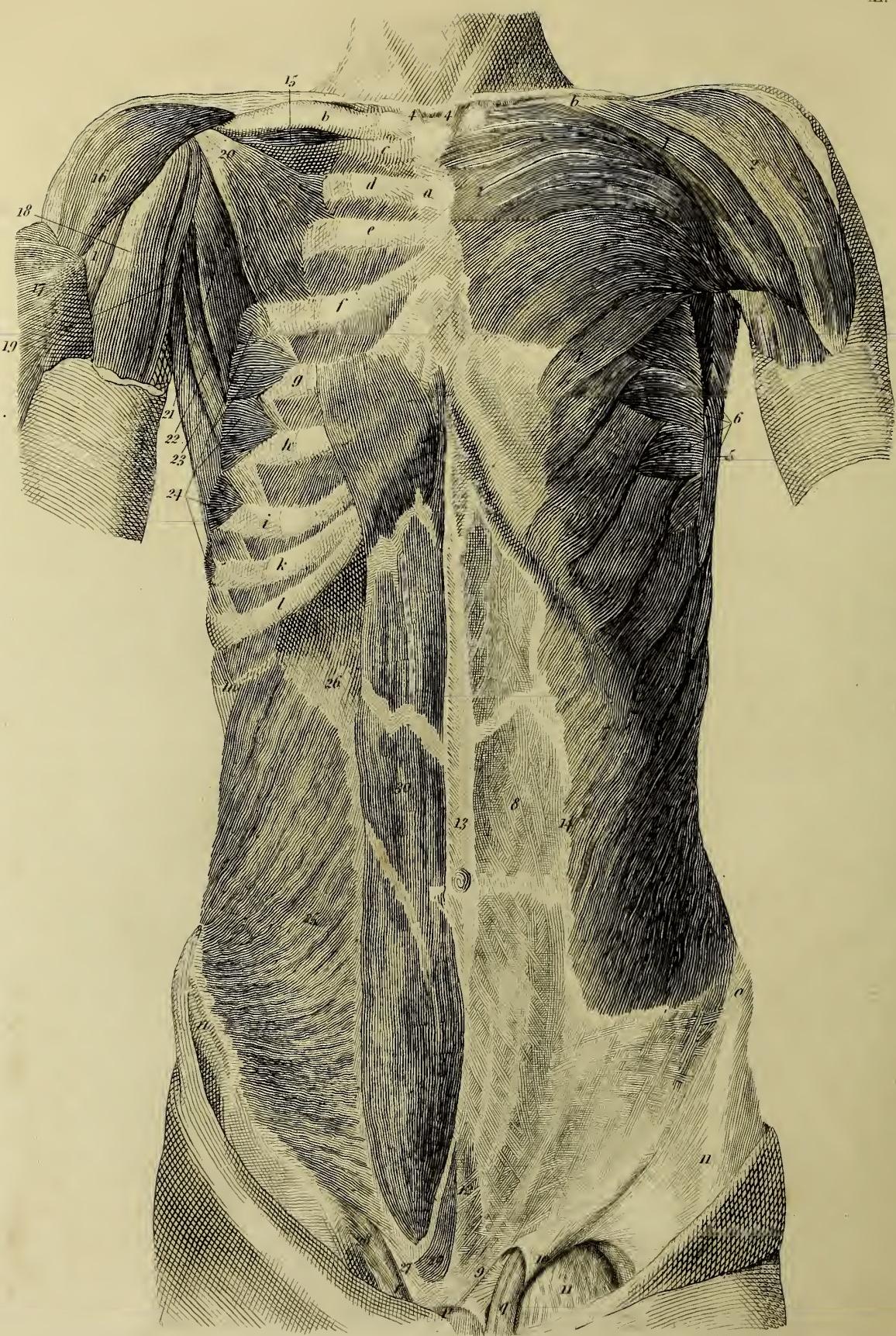
- a. Lower jaw-bone.
- b. *Sternum.*
- c. d. *Clavicles.*
- e. f. *Larynx and trachea.*
- g. Internal jugular vein.
- h. i. Internal and external carotid arteries.
- 1. *Platysma myoides* or *latissimus colli*.—The outlines of the *sterno-cleido-mastoideus* and of the clavicle are partially seen through it. The bony insertion of the muscle into the anterior and lateral portion of the lower jaw is seen: the continuation of the other fibres on to the face is represented in Plate I. 16.
- 2. Right *sterno-cleido-mastoideus*: its double attachment to the clavicle and sternum is seen below.
- 3. Sternal attachment of the left *sterno-cleido-mastoideus*.
- 4. Portions of the right and left *pectoralis major*.
- 5. Right *sterno-hyoideus*.
- 6. Right *sterno-thyroideus*. This muscle is sometimes so broad, that a portion of it appears, as in this view, on the outer, as well as on the inner edge of the *sterno-hyoideus*.
- 7. Left ditto.
- 8. Left *sterno-hyoideus*.
- 9. Right *omo-hyoideus*.
- 10. 10. The anterior and posterior portions of the *digastricus*, or *biventer maxillæ inferioris*. The tendon which unites them is fixed by a thin expansion to the *os hyoides*.
- 11. *Stylo-hyoideus*.
- 12. *Mylo-hyoideus*.
- 13. *Pterygoideus internus*.
- 14. *Styloglossus*.



Drawn & Engr'd by G. Legg.







Drawn & Eng'd by G Lewis

# PLATE III.

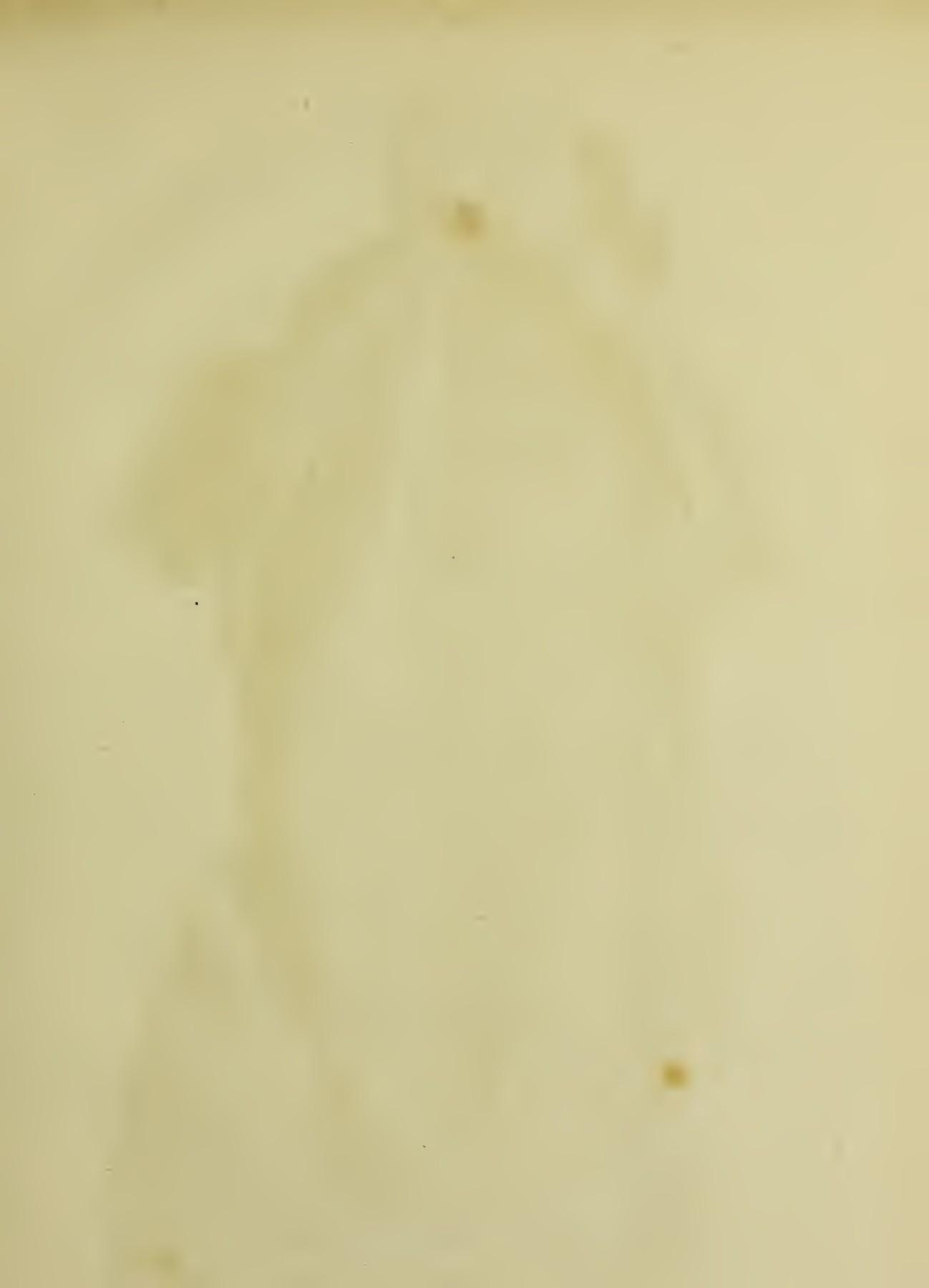
## FRONT VIEW OF THE MUSCLES OF THE TRUNK.

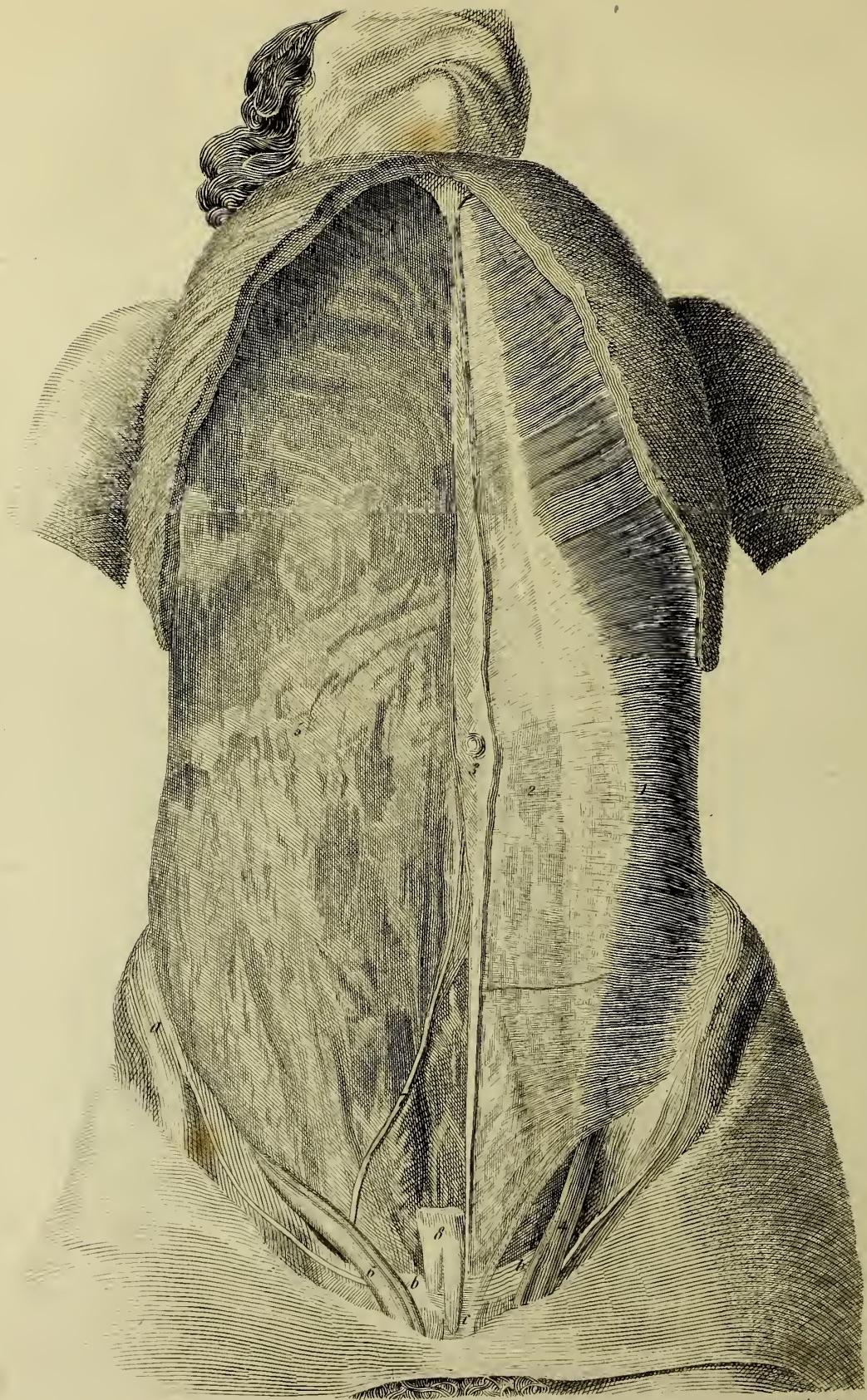
ON the left side, the superficial stratum is seen ; except that the *platysma myoides* has been removed from the upper part of the chest and shoulder. On the right side, the second layer of muscles is brought into view, by the removal of the *pectoralis major* and *obliquus externus abdominis*.

- a. Sternum.
  - b. Clavicles.
  - c. d. e. f. g. h. i. k. l. m. The ten upper ribs. The distinction between the bone and the cartilage is sufficiently obvious in the Engraving. The intervals of the ribs are filled by the intercostal muscles. Those which are placed between the cartilages, and run obliquely from above downwards and outwards, are the anterior portions of the *intercostales interni*. Small portions of the *intercostales externi* are seen between the bony portions of the ribs, running from behind downwards and forwards : none of these, however, are visible in the three superior intercostal intervals.
  - n. Crista of the right ilium.
  - o. Anterior superior spinous process of the left ilium.
  - p. Symphysis pubis.
  - q. r. Spermatic cords.
- 1.1.1. Left *pectoralis major*.—The upper part is the clavicular portion ; the middle or broadest division, the sternal portion ; the lower part is a small slip arising from the upper part of the *aponeurosis* of the *obliquus externus abdominis*.
2. Anterior portion of the left *deltoides*.
  3. Left *biceps brachii*.
  4. Sternal insertions of the right and left *sterno-cleido-mastoideus*.
  5. Anterior portion of the left *latissimus dorsi*.
  6. Part of the left *serratus magnus*.
  7. Left *obliquus externus abdominis*, reaching from the inferior edge of the *pectoralis major* to the ilium.
  8. *Aponeurosis* of the left *obliquus externus abdominis*, extending from the sternum and the cartilages of the sixth and seventh ribs, to the ossa pubis, and crural arch.
  9. 10. Internal and external columns of the aperture through which the spermatic cord passes. The latter, which is the inferior margin of the *aponeurosis* of the *obliquus externus*, is also called *Poupart's ligament*.
  11. 11. The *fascia* of the thigh, covering the muscles and vessels of the limb, and lost in the inferior margin of the *aponeurosis* of the *obliquus externus* or *Poupart's ligament*.

PLATE III.—*continued.*

12. Outline of the left *pyramidalis*, seen through the *aponeurosis* of the *obliquus externus*.
13. *Linea alba*, or interlacement of the *aponeuroses* of the right and left *obliquus externus*, *internus*, and *transversus abdominis*. The round aperture near its middle is the *umbilicus*.
14. *Linea semilunaris*, or line following the external margin of the *rectus abdominis*.—The cross lines passing between the *linea alba* and *semilunaris*, and produced by the attachment of the *aponeurosis* of the *obliquus externus* to the tendinous intersections of the *rectus abdominis*, are sometimes called *lineæ transversæ*.
15. *Sub-clavius*.
16. Anterior portion of the right *deltoides*.
17. Internal surface of the right *pectoralis major*, which has been reflected.
18. The two heads of the *biceps brachii*.
19. *Coraco-brachialis*.
20. *Pectoralis minor*.
21. *Sub-scapularis*.
22. *Teres major*.
23. *Latissimus dorsi*.
24. *Serratus magnus*.
25. *Obliquus internus abdominis*.
26. *Aponeurosis* of the *obliquus internus*, inserted into the cartilages of the ninth; eighth, and seventh ribs, and into the ensiform cartilage. The *aponeurosis* of this muscle, when it has reached the outer margin of the *rectus abdominis*, splits into two layers; an anterior and more considerable one, which joins that of the *obliquus externus*, and passes with it, in front of the *rectus*, to the *linea alba*; a posterior and thinner, which is united to the *aponeurosis* of the *transversus*. The former has been removed, to expose the *rectus*.
27. Insertion of the *obliquus internus*, at its lower part, into the *os pubis*.
28. *Cremaster*.
29. *Pyramidalis*; exposed by the removal of the anterior part of the tendinous sheath enclosing the *rectus*.
30. Right *rectus abdominis*; extending from the cartilages of the fifth, sixth, and seventh ribs, to the *symphysis pubis*.—The opposite muscle is covered by the *aponeurosis* of the *obliquus externus*, and the anterior layer of the *aponeurosis* of the *obliquus internus*. The two *recti* nearly touch each other above; are more widely separated by the *linea alba* in the middle; and again approach very nearly below.





Drawn & Engd by G. Loring.

## PLATE IV.

### THE TRANSVERSUS ABDOMINIS AND PERITONEUM.

THE *transversus abdominis* is seen on the left side, the two *obliqui* having been removed. On the right side, the *peritoneum* is brought into view, by the removal of all the abdominal muscles.

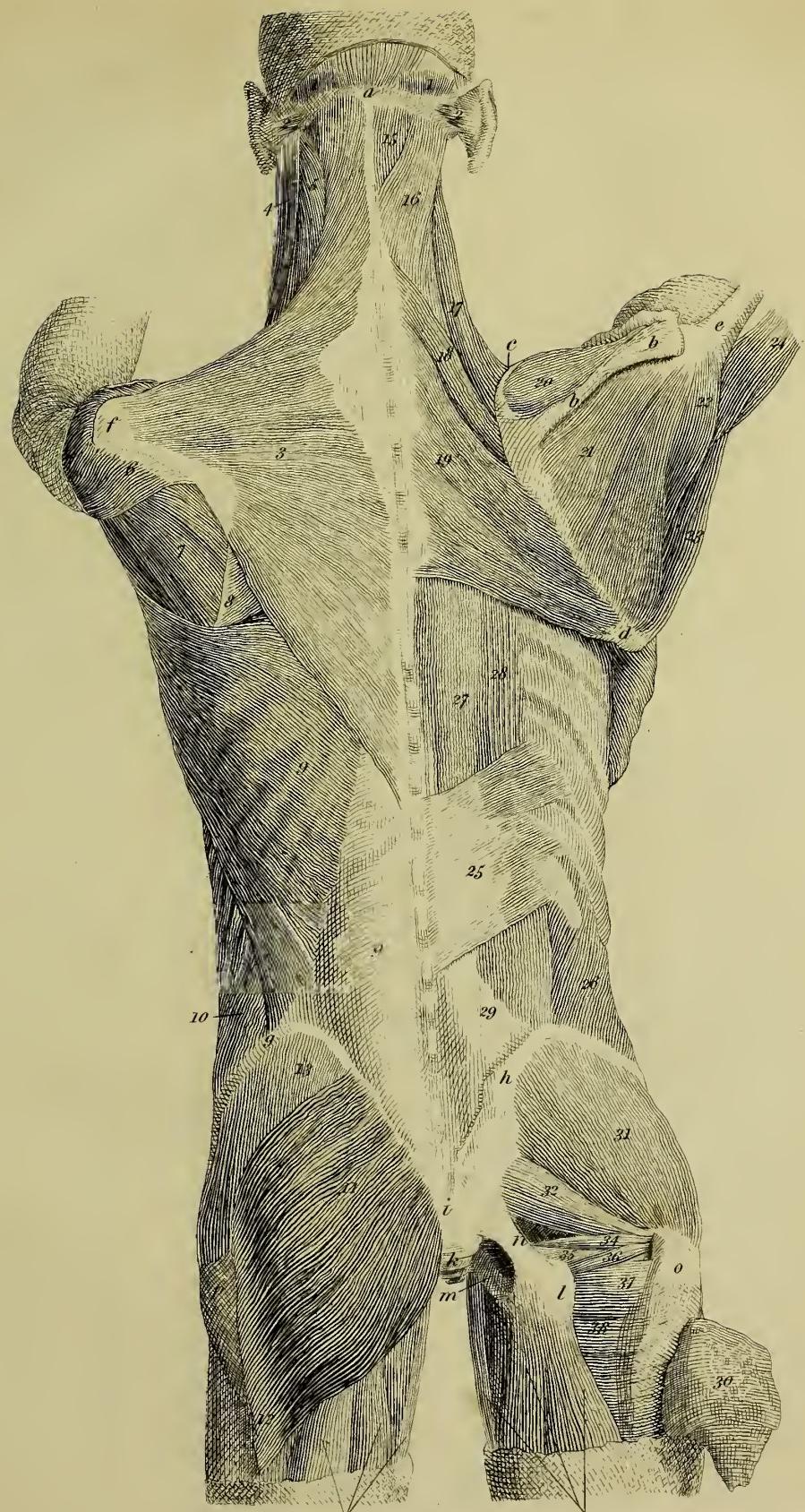
- a. a. Anterior superior spines of the ilia.
- b. b. Ossa pubis.
- c. Symphysis pubis.
- 1. *Transversus abdominis*.—Its superior portion arises from the sixth true rib; the inferior, from the outer half of the crural arch.
- 2. *Aponeurosis* of the *transversus*, reaching from the ensiform cartilage to the os pubis.—This *aponeurosis*, together with the posterior or thinner layer of the *aponeurosis* of the *obliquus internus*, passes behind the *rectus abdominis* to the *linea alba*. But its lower portion, from about the middle point between the *umbilicus* and *pubes*, goes in front of the *rectus*; and from the same point the entire tendon of the *obliquus internus* goes in front of the *rectus*. The point in question is marked by a transverse line in the Engraving. Hence, above this line, the *rectus* is separated from the *peritoneum* by the *aponeurosis* of the *transversus*: below it, the muscle lies in contact with the membrane.
- 3. *Linea alba*, extending from the ensiform cartilage to the symphysis pubis; narrow above and below, and broader towards the middle.
- 4. Left spermatic cord, passing under the inferior margin of the *transversus abdominis*.
- 5. *Peritoneum*.
- 6. Right spermatic cord.
- 7. Fibrous cord, being the remains of the right umbilical artery of the foetus.
- 8. Inferior extremity of the *rectus abdominis*, split into two portions, which are fixed to the symphysis pubis.

# PLATE V.

## BACK VIEW OF THE MUSCLES OF THE TRUNK.

THE first layer is seen on the left side; the second on the right, the *trapezius*, *latissimus dorsi*, and *gluteus magnus*, having been removed.

- a. External transverse ridge of the occipital bone.
- b. Spine and acromion of the right scapula.
- c. Superior angle of ditto.
- d. Inferior angle of ditto.
- e. Upper portion of the right humerus.
- f. Acromion of the left scapula.
- g. Crista of the left ilium.
- h. —————— right.
- i. Sacrum.
- k. Coccyx.
- l. Tuberosity of the ischium.
- m. Ramus of ditto.
- n. Great sacro-sciatic ligament.
- o. Right trochanter major.
- p. Left ditto.
- 1. 1. Occipital portion of the *fronto-occipitalis*, or *Epicranius* muscle.—The frontal portion is seen in Plate I. 1. 1.
- 2. 2. *Retrahentes auriculam.*
- 3. *Trapezius.*
- 4. *Sterno-cleido-mastoideus.*
- 5. Left *splenius capitis.*
- 6. *Deltoides.*
- 7. Left *infra-spinatus.*
- 8. Left *rhomboideus major.*
- 9. 9. *Latissimus dorsi.*
- 10. *Obliquus externus abdominis.*
- 11. Left *gluteus magnus.*
- 12. Its insertion into the thigh-bone below the *trochanter major*. Above this point, the muscular fibres are implanted in the *fascia* of the thigh.
- 13. Left *gluteus medius.*
- 14. *Flexors* of the left thigh.
- 15. *Complexus.*
- 16. Right *splenius capitis.*
- 17. *Levator scapulæ.*
- 18. *Rhomboideus minor.*
- 19. —————— *major.*



14

39

Drawn &amp; Eng'd by G. L. M.

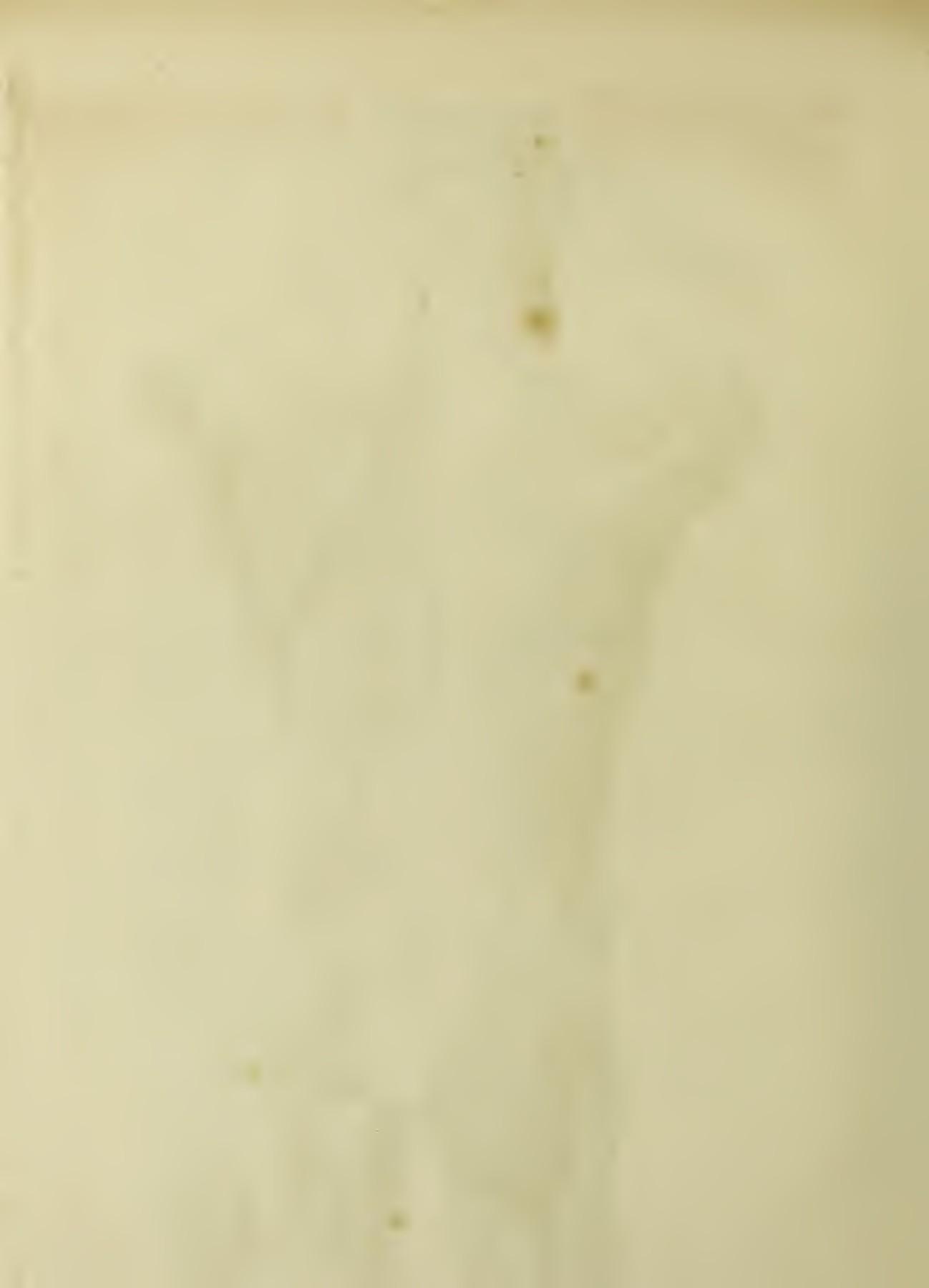


PLATE V.—*continued.*

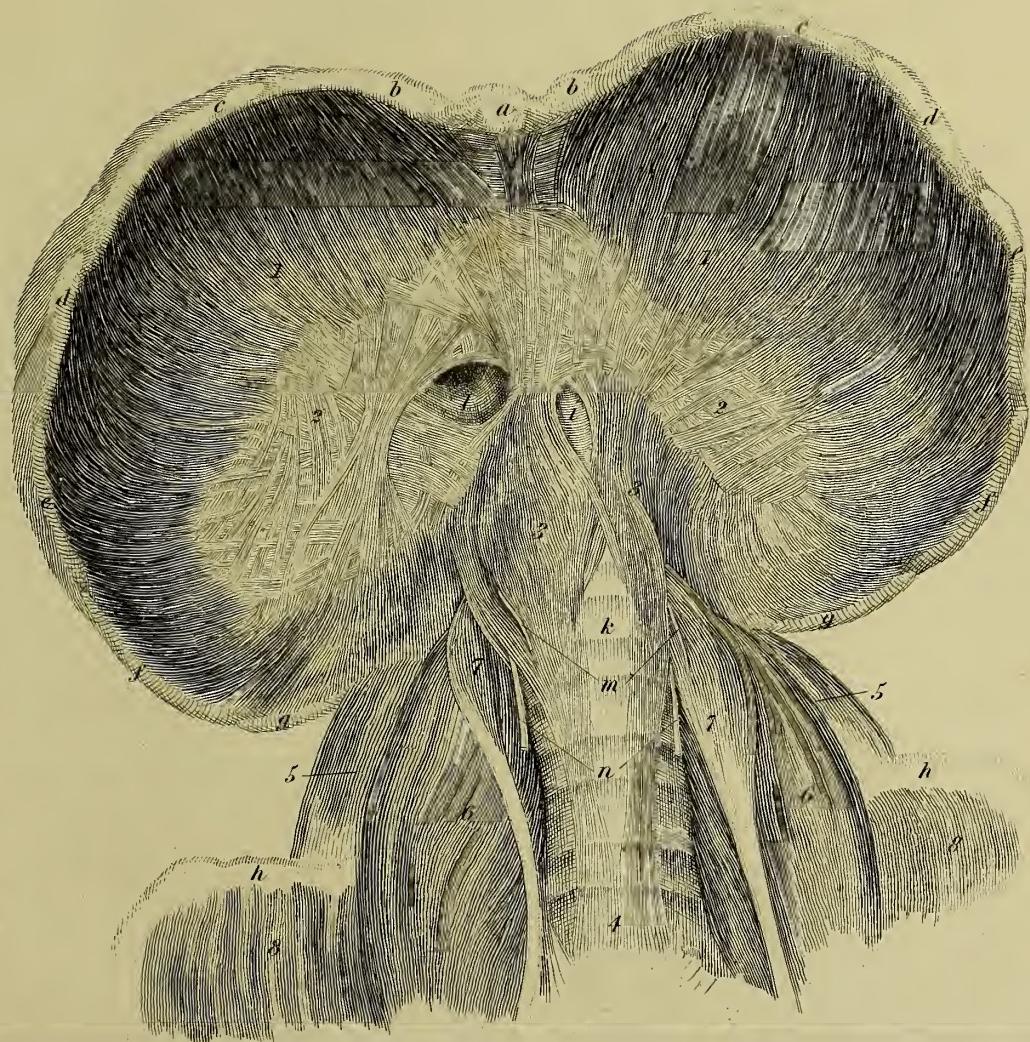
- 20. *Supra-spinatus.*
- 21. Right *infra-spinatus.*
- 22. *Teres minor.*
- 23. *Teres major.*
- 24. Long head of the *triceps brachii.*
- 25. *Serratus inferior posticus.*
- 26. *Obliquus internus abdominis.*
- 27. *Longissimus dorsi.*
- 28. *Sacro-lumbalis.*
- 29. Common origin of the two foregoing muscles.
- 30. Right *gluteus magnus.*
- 31. ————— *medius.*
- 32. *Pyriformis.*
- 33. *Gemellus superior.*
- 34. *Obturator internus.*
- 35. *Gemellus inferior.*
- 36. *Quadratus femoris.*
- 37. Great head of the *triceps femoris.*
- 38. Flexors of the right thigh.

## PLATE VI.

### THE DIAPHRAGM, SEEN FROM BELOW.

---

- a. THE ensiform cartilage.
- b. Cartilages of the last pair of true ribs.
- c. c. d. d. e. e. f. f. g. g. Portions of the cartilages of the five pairs of false ribs.
- h. h. Cristæ of the ossa innominata.
- 1. 1. 1. The greater diaphragm, or the part of the muscle which forms the partition between the chest and abdomen. The middle portion is a small fasciculus of fibres arising from the posterior surface of the ensiform cartilage.
- 2. 2. The central tendon of the diaphragm, or common point of attachment, as well for the fibres of the greater diaphragm, as for those of the appendices or crura.
- 3. 3. The right and left crus or appendix of the diaphragm.—The decussating fibres, connecting the two crura, and separating the passage of the œsophagus from that of the aorta, are seen between the two crura.
- 4. Tendinous origin of the crura from the bodies of the vertebræ.
- i. Opening between the two crura for the passage of the œsophagus, accompanied by the nerves of the eighth pair.
- h. Opening between the two crura, through which the aorta passes; together with the absorbing trunk, or trunks, which in the chest constitute the thoracic duct.
- l. Aperture in the central tendon of the diaphragm, for the passage of the inferior vena cava.
- m. m. The right and left splanchnic nerves, passing into the abdomen between the muscular fasciculi of the crura.
- n. n. The right and left great sympathetic nerves, passing between the fibres of the crura.
- 5. 5. Right and left *quadratus lumborum*.
- 6. 6. ————— *psoas magnus*.
- 7. 7. ————— *parvus*.
- 8. 8. ————— *iliacus internus*.

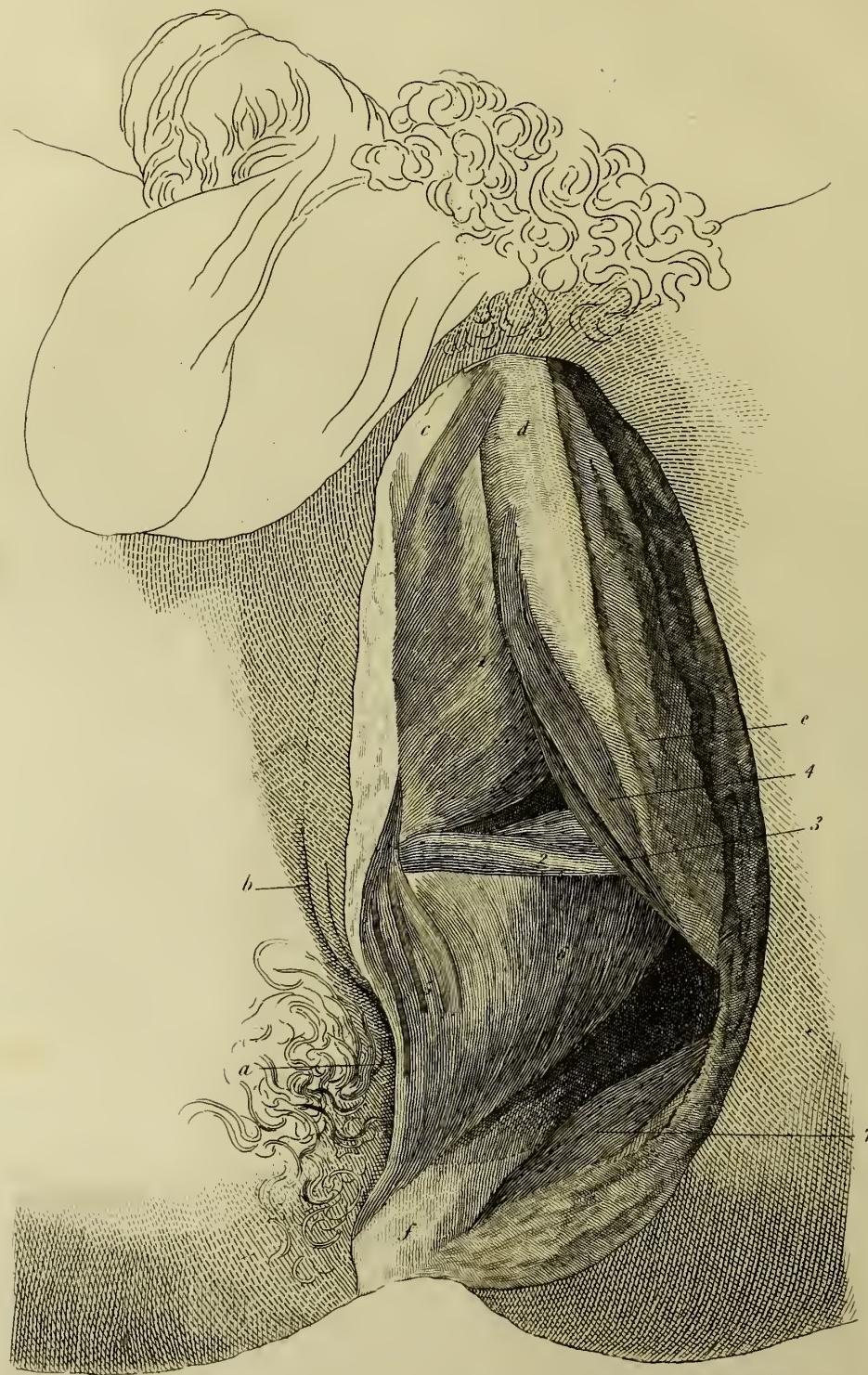


Drawn & Eng<sup>d</sup> by G. Lewis

1834, for G. Lewis, 3, St. Martin's Church, 3, Princes Street, W.C.







Drawn & Engd by Mr. Lewis.

## PLATE VII.

### MUSCLES OF THE MALE PERINEUM.

- a. Anus.
- b. Raphe perinei.
- c. Urethra.
- d. Left corpus cavernosum penis.
- e. Ramus of the ischium.
- f. Os coccygis.
- 1. Left half of the *accelerator urinæ*, covering the bulb of the urethra.—The anterior slip is fixed to the corpus cavernosum penis: the posterior extremity has its fibres blended, in front of the anus, with those of the *sphincter ani*, and *transversus perinei*.
- 2. *Transversus perinei*.
- 3. *Transversus perinei alter*.
- 4. *Erector penis*.
- 5. *Sphincter ani*; or *sphincter ani externus*.
- 6. *Levator ani*; the fibres of which are completely blended, along its anterior edge, with those of the *sphincter*.
- 7. Edge of the *gluteus magnus*.

C

## PLATE VIII.

### FASCIA OF THE THIGH, AND OF THE FORE-ARM AND PALM.

---

FIG. I.—*The Fascia or Aponeurosis of the Thigh, as it appears after the Removal of the Integuments.*

- a. b. c. THE three lower lumbar vertebræ.
  - d. Sacrum.
  - e. Crural arch.
  - f. Aperture in the fascia at which the saphena major joins the femoral vein.
  - 1. *Psoas magnus.*
  - 2. *Iliacus internus.*
  - 3. *Pyriformis.*
- 

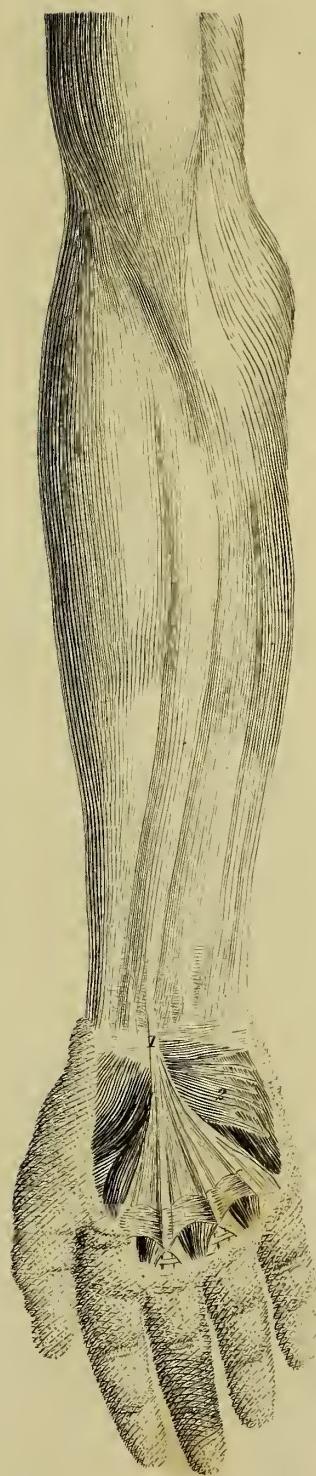
FIG. II.—*The Fascia of the Fore-Arm and of the Palm.*

- 1. Tendon of the *palmaris longus.*
- 2. *Palmaris brevis.*

*Fig. 1.*



*Fig. 2.*



Drawn & Eng'd by G Lewis





*Fig. 1.*



*Fig. 2.*



# PLATE IX.

## MUSCLES OF THE UPPER EXTREMITY.

THE LEFT LIMB IS REPRESENTED.

### FIG. I.—*Muscles of the Scapula, Arm, and Fore-Arm, on the Inner or Palmar Aspect.*

- a. Clavicle.
- b. Coracoid process of the scapula.
- c. Humerus.
- d. Inferior or carpal extremity of the radius.
- e. Carpal extremity of the ulna.
- 1. *Omo-hyoideus*.—The course of this muscle in the neck, to its insertion in the os hyoides, is seen in Plate II. 9.
- 2. 2. *Serratus magnus*. For its origin, see Plate III. 6. & 24.
- 3. *Levator scapulæ*. See Plate V. 17.
- 4. *Rhomboideus minor*. See Plate V. 18.
- 5. —————— *major*. See Plate V. 19.
- 6. *Sub-scapularis*.
- 7. *Pectoralis minor*. See Plate III. 20.
- 8. Anterior edge of the *deltoides*.
- 9. *Coraco-brachialis*.
- 10. *Teres minor*.
- 11. *Pectoralis major*. See Plate III. 1. 1. 1.
- 12. *Teres major*.
- 13. *Latissimus dorsi*. See Plate V. 9. 9.
- 14. *Biceps brachii*. For the insertion of its tendon, see Plate X. Fig. 1. 1.
- 15. 15. *Triceps brachii*. The rest of this muscle, and its insertion, are seen in Fig. 2. 18.
- 16. *Brachialis internus*. Its insertion is seen in Plate X. Fig. 1, 2.
- 17. *Supinator radii longus*.
- 18. *Pronator radii teres*.
- 19. *Flexor carpi radialis*.
- 20. *Palmaris longus*. The expansion of its tendon into the *palmar fascia* is seen in Plate VIII. Fig. 2.
- 21. *Flexor carpi ulnaris*.
- 22. *Flexor digitorum sublimis*, or *perforatus*.
- 23. *Flexor longus pollicis*.
- 24. Tendons of the *abductor longus*, and *extensor major pollicis*.

PLATE IX.—*continued.*

FIG. II.—*Muscles of the Scapula, Arm, and Fore-Arm, on the Outer or Dorsal Aspect.*

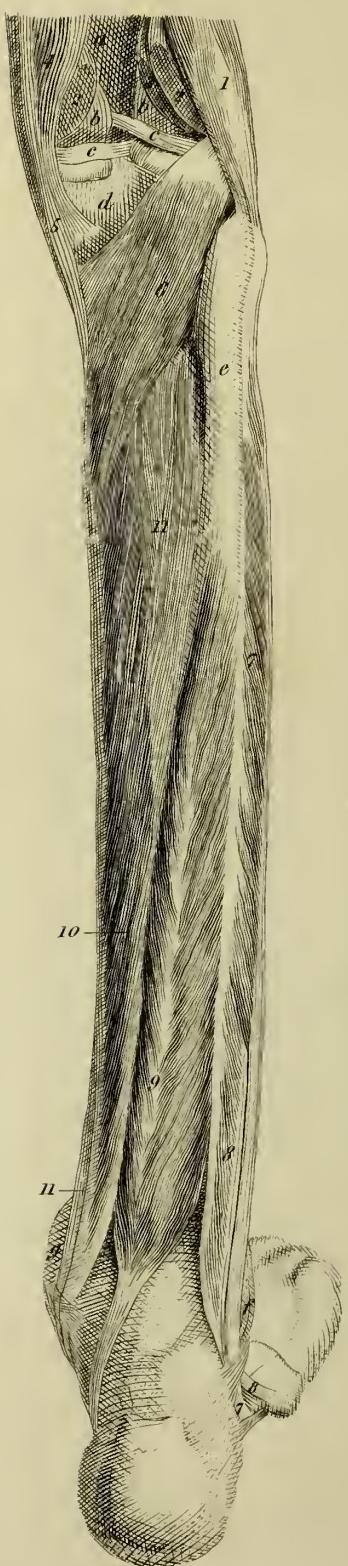
- a. Clavicle.
- b. Acromion.
- c. Spine of the scapula.
- d. External condyle of the humerus.
- e. Olecranon.
- f. Inferior or carpal extremity of the ulna.
- g. Carpal extremity of the radius.
- 1. Portion of the *trapezius*. See Plate V. 3.
- 2. *Serratus magnus*.
- 3. *Pectoralis major*.
- 4. *Deltoides*.
- 5. *Infra-spinatus*.
- 6. *Teres minor*.
- 7. *Teres major*.
- 8. *Triceps brachii*.
- 9. *Biceps brachii*.
- 10. Outer or radial edge of the *brachialis internus*.
- 11. *Supinator radii longus*. See Fig. 1. 17.
- 12. *Extensor carpi radialis longior*.
- 13. ————— *brevior*.
- 14. Tendinous insertions of the two foregoing muscles into the *metacarpus*.
- 15. *Extensor digitorum communis*.
- 16. *Extensor proprius auricularis*.
- 17. *Abductor longus pollicis*; or *extensor primi internodii pollicis*.
- 18. *Extensor major pollicis*; or *extensor secundi internodii*.
- 19. ————— *minor* ————— ; or ————— *tertii* —————.
- 20. *Indicator*.
- 21. *Flexor carpi ulnaris*.
- 22. *Extensor carpi ulnaris*.
- 23. Posterior annular ligament of the wrist.
- 24. *Anconæus*.



Fig. 1.



Fig. 2.



Drawn &amp; Engr'd by G Lewis

## PLATE X.

### VIEWS OF SOME DEEP-SEATED MUSCLES IN THE FORE-ARM AND LEG.

FIG. I.—*Deep-seated Muscles on the Inner or Palmar Aspect of the Fore-Arm.*  
—The Pronator Teres, the Extensores Carpi Radiales, the Palmaris Longus, the Flexor Digitorum Sublimis, and the Flexor Carpi Ulnaris, have been removed.

- a. INTERNAL condyle of the humerus.
- b. Coronoid process of the ulna.
- c. Tubercl<sup>e</sup> of the radius.
- d. Carpal extremity of the radius.
- e. —————— ulna.
- f. Annular ligament of the carpus.
- 1. Tendon of the *biceps brachii*. See Plate IX. Fig. 1. 14.
- 2. Insertion of the *brachialis internus* into the coronoid process of the ulna.  
See Plate IX. Fig. 1. 16.
- 3. *Supinator radii brevis*.
- 4. *Flexor digitorum profundus*, or *perforans*.
- 5. *Flexor longus pollicis*.
- 6. Tendon of the *supinator radii longus*.
- 7. Tendons of the *abductor longus* and *extensor major pollicis*.
- 8. 8. The two attachments of the *pronator quadratus*. The intervening portion of the muscle is covered by the *flexor digitorum profundus*, and *flexor longus pollicis*.
- 9. Tendon of the *flexor carpi radialis*.
- 10. —————— *palmaris longus*.
- 11. —————— *flexor carpi ulnaris*.

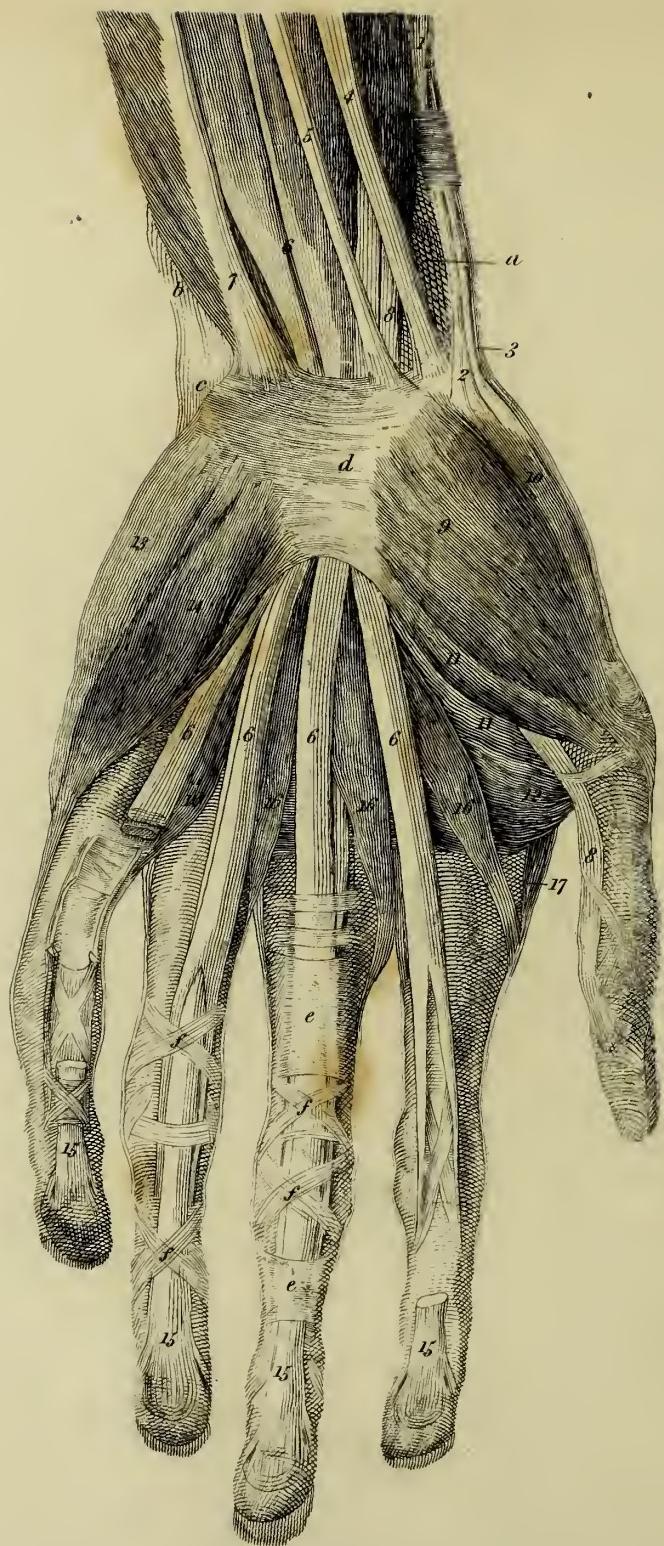
FIG. II.—*Deep-seated Muscles on the Back of the Leg; the Muscles of the Calf having been removed.*

- a. Femur.
- b. b. Its condyles.
- c. c. Semilunar cartilages of the knee.
- d. Tibia.
- e. Fibula.
- f. Its inferior or tarsal end, called the malleolus externus.
- g. Malleolus internus of the tibia.

PLATE X. FIG. 2.—*continued.*

1. Tendon of the *biceps femoris*. See Plate XIV. Fig. 2. 4.
2. Portions of the *gastrocnemius*.
3. Portion of the *plantaris*.
4. *Semimembranosus*.
5. *Sartorius* and *gracilis*.
6. *Popliteus*.
7. *Peroneus longus*: its tendon, having passed behind the external malleolus, goes into the sole of the foot.
8. *Peroneus brevis*; and its insertion into the fifth metatarsal bone.
9. *Flexor longus pollicis pedis*.
10. *Flexor longus digitorum pedis*.
11. *Tibialis posticus*.





Drawn & Engraved by G. Lew.

## PLATE XI.

SUPERFICIAL MUSCLES OF THE PALM AND FINGERS, AS SEEN  
AFTER THE REMOVAL OF THE PALMARIS BREVIS, AND THE  
PALMAR FASCIA; WITH THOSE ON THE CARPAL END OF THE  
FORE-ARM.

---

- a. CARPAL end of the radius.
- b. \_\_\_\_\_ ulna.
- c. Os pisiforme.
- d. Annular ligament of the carpus (*ligamentum carpi proprium*), under which the flexor tendons and median nerve enter the palm.
- 1. Tendon of the *supinator radii longus*. See Plate IX. Fig. 2. 11.
- 2. \_\_\_\_\_ *abductor longus pollicis*. See Plate IX. Fig. 2. 17.
- 3. \_\_\_\_\_ *extensor major pollicis*. See Plate IX. Fig. 2. 18.
- 4. *Flexor carpi radialis*. See Plate IX. Fig. 1. 19.
- 5. Tendon of the *palmaris longus*.
- 6. 6. 6. 6. 6. *Flexor digitorum sublimis* or *perforatus*. See Plate IX. Fig. 1. 22.
- 7. *Flexor carpi ulnaris*.
- 8. 8. *Flexor longus pollicis*.
- 9. *Abductor brevis pollicis*.
- 10. *Opponens pollicis*.
- 11. 11. *Flexor brevis pollicis*.
- 12. *Adductor pollicis*.
- 13. *Abductor minimi digiti*.
- 14. *Flexor brevis minimi digiti*.
- 15. 15. 15. 15. Tendons of the *flexor digitorum profundus* or *perforans*. See Plate IX. Fig. 1. 4.
- 16. 16. 16. 16. *Lumbricales*.
- 17. *Abductor indicis*.
- e.e. Strong ligaments, of semi-cartilaginous structure, (*ligamenta vaginalia phalangis primæ et medicæ digitorum*,) confining the tendons of the *flexor sublimis* and *profundus* to the palmar surfaces of the first and second digital phalanges. They have been removed, or cut open, in the other fingers, in order to expose the course of the tendons.
- f.f.f.f. More slender ligaments with decussating fibres, occupying the intervals of the preceding, and confining the tendons in their passage over the joints. (*Ligamenta obliqua* or *cruciformia*.)—In the middle finger, all the ligaments confining the flexor tendons are represented. In the ring-finger, the *ligamenta vaginalia* have been removed, so as to shew the course

PLATE XI.—*continued.*

course and relative position of the tendons of the *sublimis* and *profundus*, 6 & 15. All the ligaments are removed in the fore-finger, as well as the greatest part of the tendon of the *flexor profundus* 15: thus the fissure in the *sublimis* 6, for the passage of the *profundus* 15, is brought into view, as well as the interlacing of the two portions of the *sublimis* behind the *profundus*, and their ultimate insertion in the middle phalanx. The ligaments have been laid open in the little finger, so as to expose the channel which they form for the tendons. The latter have both been cut through opposite to the first joint of the finger: the *flexor sublimis* has been again divided at the middle joint, so as to leave its *decussated* portion and insertion, while the *profundus* has been divided at the middle *phalanx*.





## PLATE XII.

### MUSCLES OF THE HAND, IN A MORE DEEP-SEATED VIEW.

---

THE *flexor sublimis* has been removed. The *abductor* and *flexor brevis pollicis*, and the *abductor digiti minimi*, have been reflected.

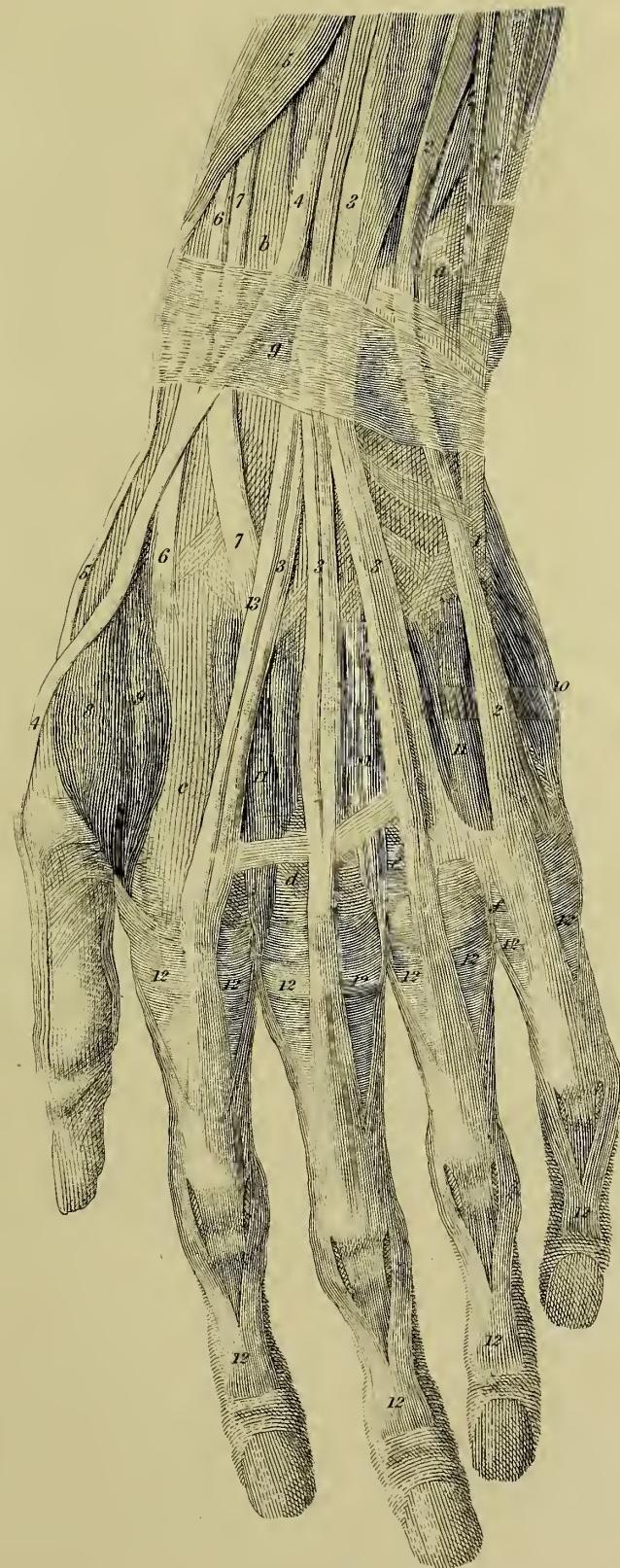
- a. Os pisiforme.
- b. Annular ligament of the carpus.
- c. Carpal extremity of the radius.
- 1. *Flexor carpi ulnaris.*
- 2. 2. 2. 2. } *Flexor digitorum profundus.* See Plate X. Fig. 1. 4.  
2. 2. 2. }
- 3. 3. *Flexor longus pollicis.*
- 4. *Flexor carpi radialis.*
- 5. *Abductor pollicis* reflected.
- 6. *Flexor brevis pollicis* reflected.
- 7. *Opponens pollicis.*
- 8. *Adductor pollicis.*
- 9. *Abductor digiti minimi.*
- 10. *Adductor ossis metacarpri digitii minimi.*
- 11. 11. 11. 11. *Lumbricales.*
- 12. One of the *interossei interni* or *priores.*
- 13. *Abductor indicis.*

## PLATE XIII.

### MUSCLES ON THE BACK OF THE HAND AND FINGERS, WITH THE ADJOINING PORTION OF THE FORE-ARM.

---

- a. INFERIOR or carpal extremity of the ulna.
- b. Radius.
- c. d. e. f. Metacarpal bones.
- g. Posterior annular ligament of the wrist. (*Ligamentum commune carpi dorsale.*)
- 1. 1. *Extensor carpi ulnaris*; and its insertion into the fourth metacarpal bone.  
See Plate IX. Fig. 2. 22.
- 2. 2. *Extensor proprius auricularis*. See Plate IX. Fig. 2. 16.
- 3. 3. 3. *Extensor communis digitorum*. See Plate IX. Fig. 2. 15. It will be observed, that a portion separates from the third tendon to join the *extensor proprius auricularis*.
- 4. 4. *Extensor minor pollicis*.
- 5. 5. *Extensor major pollicis*.
- 6. 6. Tendon of the *extensor carpi radialis longior*. See Plate IX. Fig. 2. 12.
- 7. 7. \_\_\_\_\_ *brevior*. See Plate IX. Fig. 2. 13.
- 8. *Abductor indicis*.
- 9. *Interosseus prior indicis*.
- 10. *Abductor digitii minimi*.
- 11. 11. 11. *Interossei posteriores* or *externi*.
- 12. 12. 12. 12. Tendons of the *lumbricales* and *interossei*, first connected by broad expansions with the tendons of the *extensor communis digitorum*, and then inserted together in the last *phalanges*.
- 13. Tendon of the *indicator*.—It will be observed, that the forefinger also receives a slip from the *extensor communis*.



Drawn & Engr'd by C. Lewis





Fig. 2.

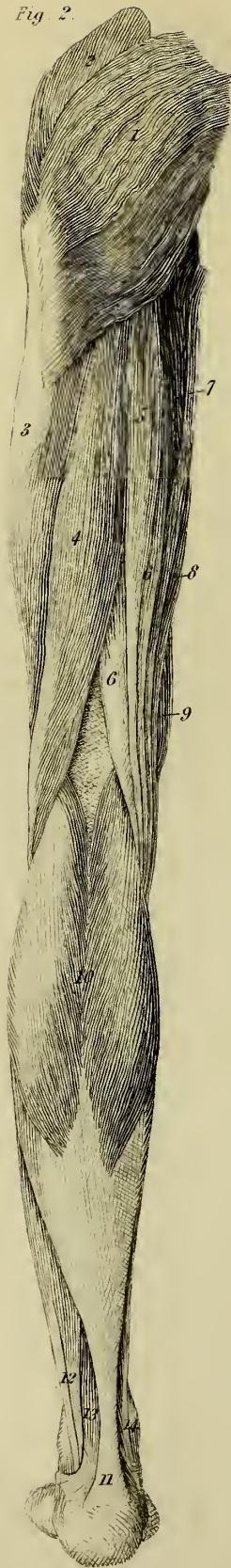


Fig. 1.



Drawn &amp; Engd by G Lewis

## PLATE XIV.

### MUSCLES OF THE THIGH AND LEG.

FIG. I.—*Front View.*

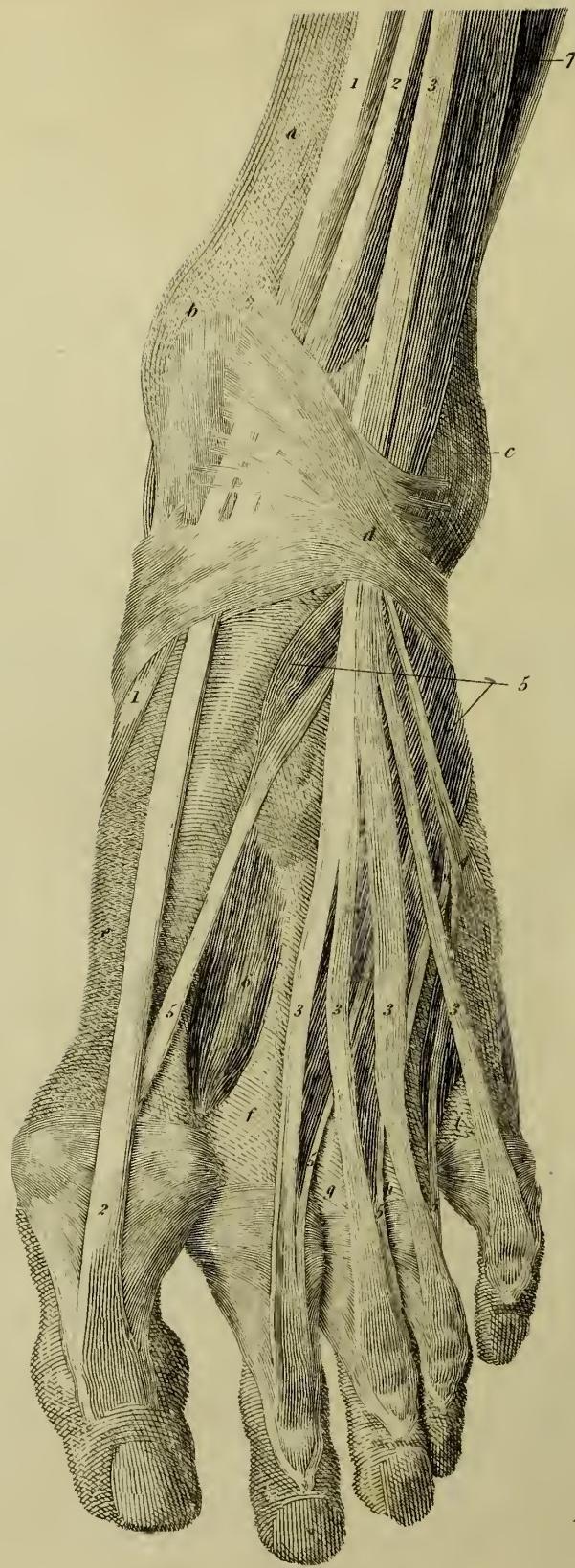
- a. FIFTH lumbar vertebra.
- b. Sacrum.
- c. Coccyx.
- d. Crista of the ilium.
- e. Symphysis pubis.
- f. Patella.
- g. Tibia.
- h. Internal malleolus.
- i. External malleolus.
- 1. *Iliacus internus.*
- 2. *Psoas magnus.*
- 3. *Tensor vaginalæ femoris.*
- 4. *Sartorius.*
- 5. *Pectineus.*
- 6. Long head of the *triceps femoris.*
- 7. Middle head of ditto.
- 8. *Gracilis.*
- 9. *Rectus femoris.*
- 10. *Vastus externus.*
- 11. *Vastus internus.*
- 11. Common tendon, by which the *vasti*, *cruralis*, and *rectus femoris* are fixed to  
the front of the *tibia*.
- 12. Internal head of the *gastrocnemius*.
- 13. Internal edge of the *soleus*.
- 14. *Tibialis anticus.*
- 15. *Extensor longus digitorum pedis.*
- 16. *Peroneus longus.*
- 17. *Extensor longus pollicis pedis.*

PLATE XIV.—*continued.*

FIG. II.—*Back View of the Muscles of the Thigh and Leg.*

1. *Gluteus magnus.*
2. ——— *medius.*
3. *Vastus externus.*
4. *Biceps femoris.*
5. *Semitendinosus.*
6. 6. *Semimembranosus*, partly covered by the former, but, in consequence of its greater width, appearing beyond it on each side.
7. *Gracilis.*
8. *Sartorius.*
9. *Vastus internus.*
10. *Gastrocnemius.*
11. *Tendo Achillis.*
12. *Peronei.*
13. *Flexor longus pollicis pedis.*
14. Tendons of the *flexor longus digitorum pedis* and *tibialis posticus*.





## PLATE XV.

### MUSCLES ON THE BACK OF THE FOOT, AND NEIGHBOURING PORTION OF THE LEG.

---

- a. TIBIA.
- b. Malleolus internus.
- c. Malleolus externus.
- d. Ligamentous band confining the tendons at their passage over the ankle.
- e. f. g. h. i. The five metatarsal bones.
  - 1. 1. *Tibialis anticus*. See Pl. XIV. Fig. 1. 14.
  - 2. 2. *Extensor longus pollicis pedis*. See Pl. XIV. Fig. 1. 17.
  - 3. 3. 3. 3. 3. *Extensor longus digitorum pedis*. See Pl. XIV. Fig. 1. 15.
  - 4. Tendon, which, with its corresponding portion of muscle, forms the *peroneus tertius*.
  - 5. 5. 5. 5. 5. *Extensor brevis digitorum pedis*.
  - 6. One of the *interossei externi pedis*.
  - 7. Portion of the *peroneus brevis*.

The tendinous expansions covering the backs of the toes are formed by the tendons of the *extensor longus* and *brevis digitorum*, with additional portions from the *abductor pollicis pedis*, the *lumbricales*, and the ligaments of the articulations between the *metatarsal* bones and toes.

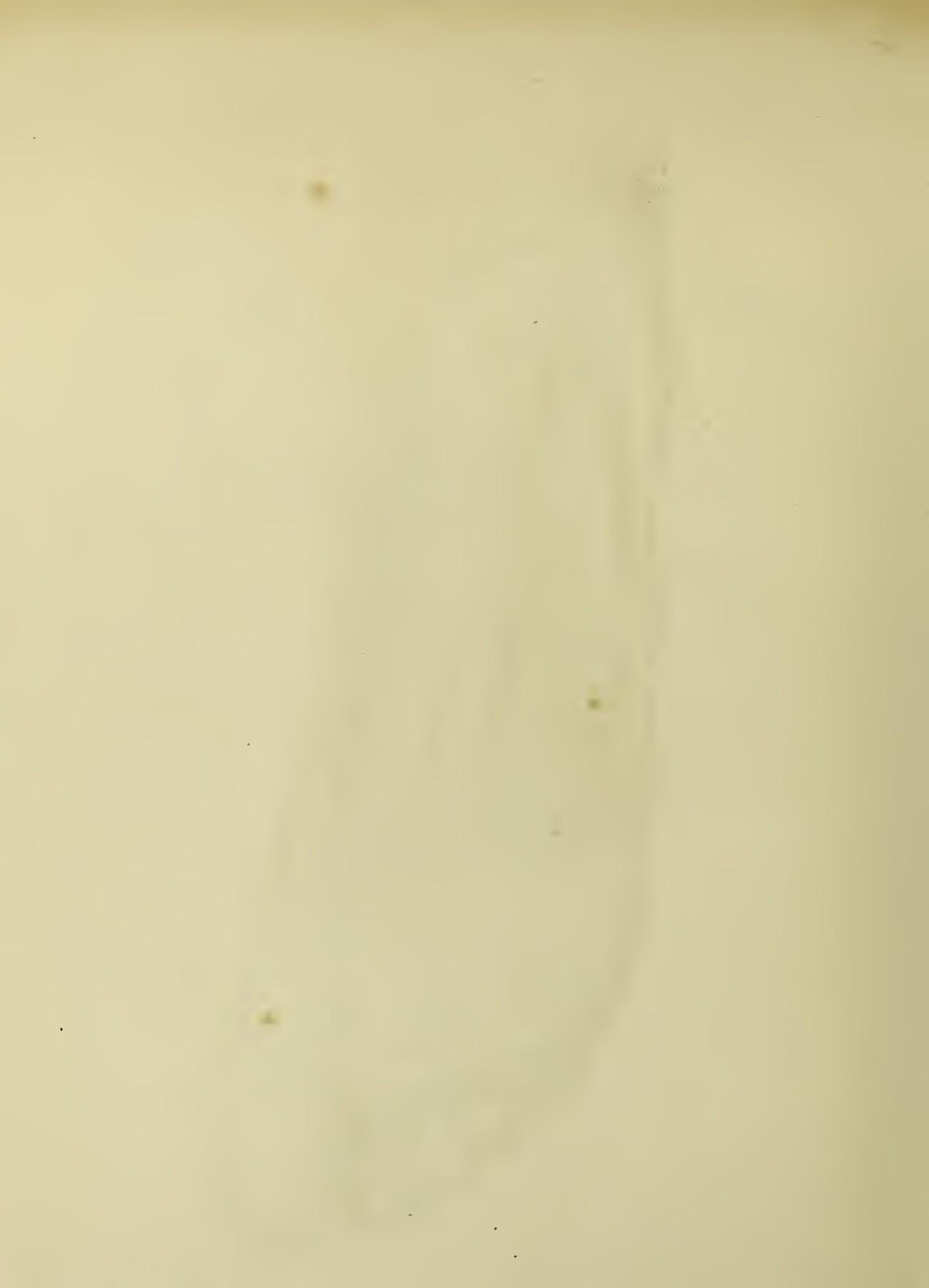
## PLATE XVI.

### THE PLANTAR FASCIA, OR APONEUROSIS.

- 
- a. Os calcis.
  - b. The middle or strongest portion of the *plantar fascia*, arising from the os calcis, and ending in attachment to the metatarsal bones, and sheaths of the flexor tendons of the toes.
  - c. External lateral portion of the *fascia*.
  - d. Internal ditto.
  - e. Process of the fifth metatarsal bone.
  - 1. 1. *Abductor digiti minimi pedis.*
  - 2. ——— *pollicis pedis.*



Drawn & Eng'd by G. Green







Drawn & Engd by G. Lewis.

## PLATE XVII.

### FIRST LAYER OF MUSCLES IN THE SOLE OF THE FOOT, AS THEY APPEAR AFTER REMOVING THE PLANTAR FASCIA.

---

- a. Os calcis.
- b. b. b. Strong semi-cartilaginous ligaments which bind down the flexor tendons of the toes upon the 1st and 2d phalanges, similar to those in the fingers.
- c. c. Oblique or decussating ligaments, analogous to those of the fingers.
- 1. *Abductor pollicis pedis.*
- 2. *Flexor brevis pedis.*
- 3. 3. 3. 3. 3. *Flexor brevis*, or *perforatus digitorum pedis.*
- 4. *Abductor minimi digiti pedis.*
- 5. 5. *Flexor brevis.*
- 6. 6. *Flexor longus pollicis.* See Plate X. Fig. 2. 9.
- 7. 7. 7. 7. *Lumbrales.*
- 8. 8. 8. Tendons of the *flexor longus digitorum pedis.* See Plate X. Fig. 2. 10.—  
A portion of one of these tendons has been removed in the fourth toe, to shew the perforation or slit in the tendon of the *flexor brevis*, and its mode of insertion, which are analogous to the corresponding parts in the fingers.

## PLATE XVIII.

### SECOND LAYER OF MUSCLES OF THE SOLE.

---

THE *flexor brevis digitorum pedis*, the *abductor pollicis*, and *abductor digitii minimi*, have been removed.

- a. Os calcis.
- b. Os naviculare.
- c. Internal or great cuneiform bone.
- d. Process of the fifth metatarsal bone, into which the tendon of the *peroneus brevis*, 9, is inserted.
- 1. Tendon of the *abductor pollicis pedis*.
- 2. \_\_\_\_\_ *digiti minimi*.
- 3. 3. \_\_\_\_\_ *flexor longus pollicis*. See Plate X. Fig. 2. 9.
- 4. 4. 4. 4. *Flexor longus digitorum pedis*. See Plate X. Fig. 2. 10.
- 5. 5. 5. 5. *Lumbricales*.
- 6. *Flexor accessorius digitorum pedis*.
- 7. *Flexor brevis pollicis pedis*.
- 8. \_\_\_\_\_ *digiti minimi pedis*.
- 9. Insertion of the *peroneus brevis*.











